JVC
PROFESSIONAL

# PROFESSIONAL PRODUCTS

## GENERAL CATALOGUE
## 2001

**PAL/CCIR**

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This catalogue is for world-wide use.
Additional products may not be listed, and
some models may not be available in your region.
Please check with your dealer for availability.



All model numbers, specifications and prices are subject to change without notice.

# D-9, Professional DV and NLE



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D-9 COMPONENT DIGITAL

# DY-90WE 16:9/4:3
# DY-90E 4:3

COMPONENT DIGITAL 4:2:2



- Light weight 7.2 kilograms (DY-90WE) and 6.9 kilograms (DY-90E) including typical lens, viewfinder, battery and tape
- Only 30 watts power requirement while recording with DY-90WE (29 W with DY-90E)
- Fully digital Camera to Tape parallel digital signal recording, rugged and high quality 50 Mbps, 8-bit, 4:2:2 component D-9 format
- 2-hour (124 minutes) D-9 recording time with DS-124 cassette
- Advanced generation 14-bit digital signal camera processing
- Records four 16-bit 48 kHz PCM audio channels with more than 80 dB dynamic range (75 dB in camcorder playback).
- Both +48 V XLR and 6-pin camera microphone inputs, plus 2 additional +48 V mic/line XLR inputs

DY-90WE

DY-90E

### Imaging

- Three 2/3" 980H x 582V pixel IT CCDs (DY-90WE) and three 2/3" 754 H x 581 V pixel IT CCDs with total 600% dynamic range reproduction due to exclusive track and hold CCD sampling circuit. Low CCD vertical smear level of minus 120 dB
- High sensitivity of F11 at 2000 lux gives creative flexibility and ease of lighting
- Lolux mode provides outstanding reproduction down to 0.75 lux
- Digital signal processing enables natural detail enhancement, and elimination of spot noise.
- 14-bit DSP processing gives exceptional reproduction of dark areas, highlights and highlight colour.
- Automatic shooting from 4 to 24,000 lux thanks to JVC's pioneering Full Auto Shooting (FAS) mode with continuous automatic white balance.
- Two scene files save advanced custom camera setups in removable setup box in addition to standard setup.
- Other features: One touch black stretch/compress, smooth transition mode, precision "Accufocus" mode, adjustable gamma point, adjustable detail frequency, and continuous auto-black (CAB).

### D-9 Recording

- Up to 124 minutes uninterrupted recording with DS-124 cassette.
- Robust 1/2 inch metal particle cassettes
- Automatic editing function (AEF) for smooth cuts
- 4x picture search in both directions
- Quick review function
- Colour video playback for monitoring
- Phantom power supply for microphone inputs
- Built-in monitor speaker and headphones jack
- EBU time code generator with external input and output, external lock, jam sync and seamless time code between takes.
- Time date generator
- Large LCD display indicates time code, modes and functions
- Fully menu configurable
- Tape/Battery remaining indication
- Rugged die cast chassis using ceramic tape guide rollers and sapphire flanges for long life
- Durable and reliable centre rotating head design

(See specification on page 7.)

### Included Accessories

- Tripod plate
- 6-pin camera microphone (not included for DY-90WE)
- Anton Bauer battery holder
- Setup box

### Optional Accessories (see page 8)

- Viewfinder
- Lens
- Microphone
- Microphone holder
- Power system
- Case



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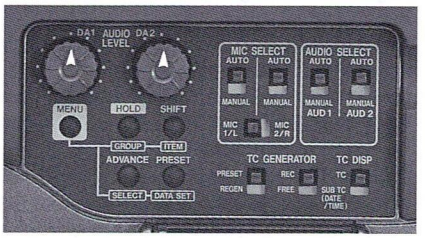
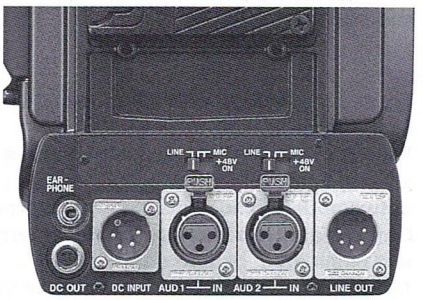
D-9 COMPONENT DIGITAL

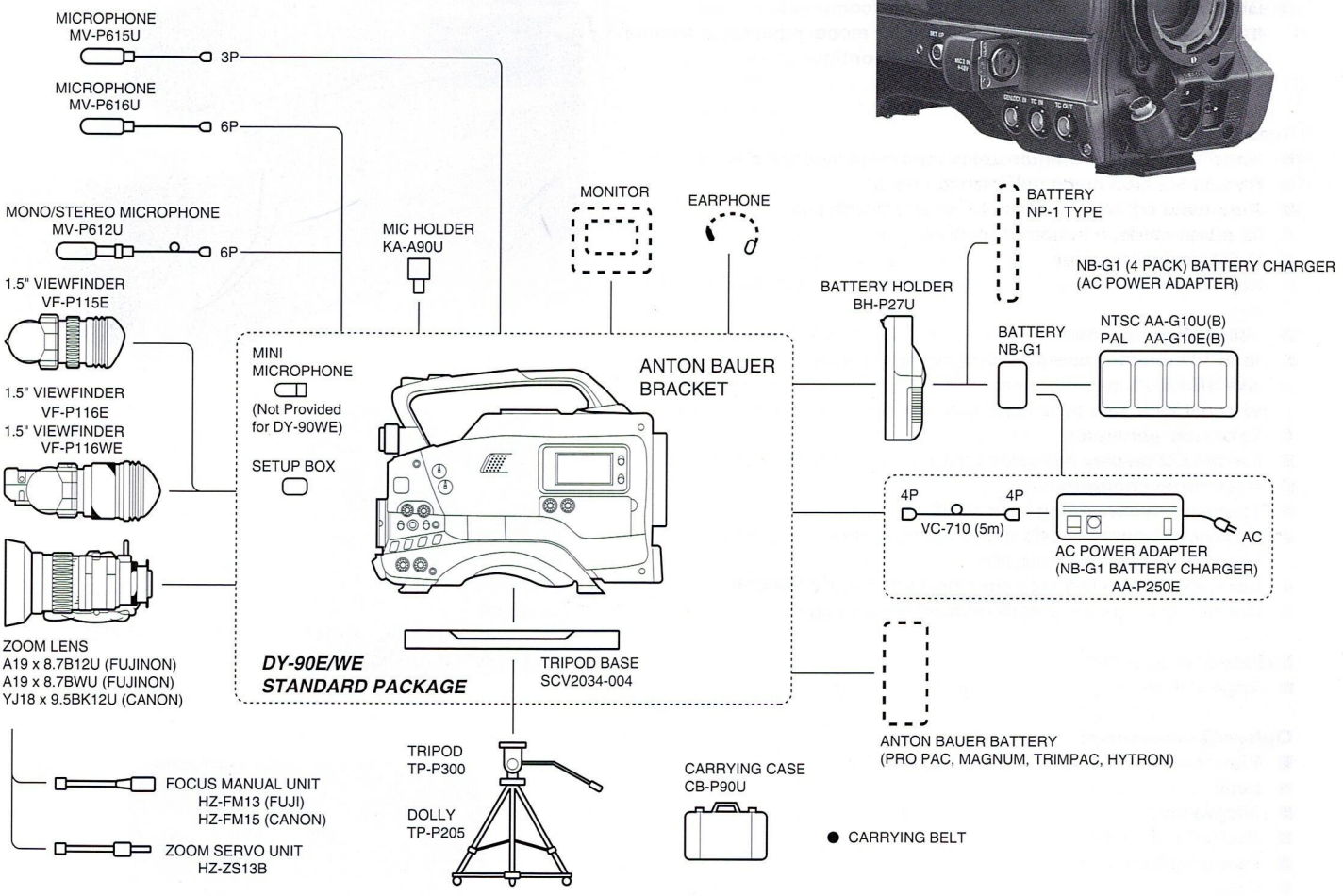
# DY-90WE, DY-90E

COMPONENT DIGITAL 4:2:2



## System Configuration



# D-9 Camcorder (Low Cost and Light Weight)

D-9 COMPONENT DIGITAL

## DY-70E

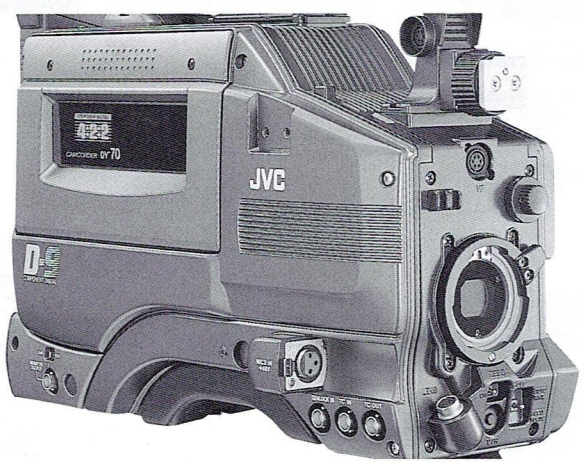
COMPONENT DIGITAL 4:2:2



- Ergonomic design: controls are conveniently located for ease of use
- Light weight less than 6.8 kg/15 lbs. including typical lens, viewfinder, battery and tape
- Only 30 watts power requirement while recording with DY-70
- Fully digital camera to tape parallel digital signal recording, rugged and high quality 50 Mbps, 8-bit, 4:2:2 component D-9 format
- 2-hour (124 minutes) D-9 recording time with DS-124 cassette
- Records four 16-bit, 48 kHz PCM audio channels with more than 80 dB dynamic range (75 dB in camcorder playback).
- Both XLR and 6-pin camera microphone inputs, plus 2 additional mic/line XLR inputs

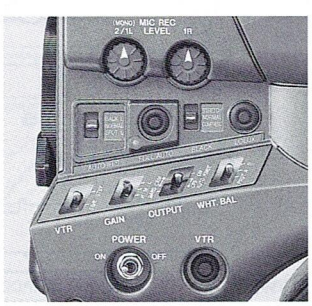
### Imaging

- Three 1/2" 440K pixel IT micro lens CCDs. Low CCD vertical smear level of -120 dB
- High sensitivity of F11 at 2000 lux gives creative flexibility and ease of lighting
- Lolux mode provides outstanding reproduction down to 0.75 lux
- Digital signal processing enables natural detail enhancement, and elimination of spot noise
- 14-bit DSP gives exceptional reproduction of dark areas, highlights and highlight colour
- Automatic shooting from 4 to 24,000 lux thanks to JVC's pioneering Full Auto Shooting (FAS) mode with continuous automatic white balance
- Other features: One touch black stretch/compress, smooth transition mode, precision "accu-focus" mode, adjustable gamma point, adjustable detail frequency, and continuous auto-black (CAB).




### Recording

- Up to 124 minutes uninterrupted recording with DS-124 cassette
- Robust 1/2-inch metal particle cassettes
- Automatic editing function (AEF) for smooth cuts
- 4x picture search in both directions
- Quick review function
- High-quality video out for colour video playback or field monitoring
- +48 V phantom power supply for all XLR microphone inputs
- Built-in monitor speaker and headphones jack
- SMPTE/EBU time code generator with external input and output, external lock, jam sync and seamless time code between takes
- Time/date generator
- Large LCD display indicates time code, modes and functions
- Fully menu configurable
- Tape/battery remaining indication
- Rugged die-cast chassis using ceramic tape guide rollers and sapphire flanges for long life
- Long life proven D-9 tape transport and head assembly
- Durable and reliable centre rotating head design

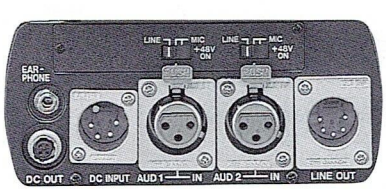



### Included accessory

- Tripod plate

### Optional accessories

- Viewfinder
- Lens
- Microphone
- Microphone holder
- Power system
- Case



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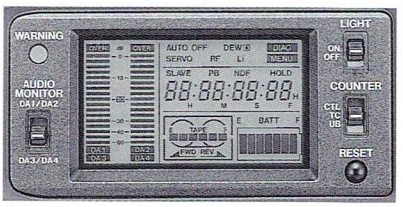
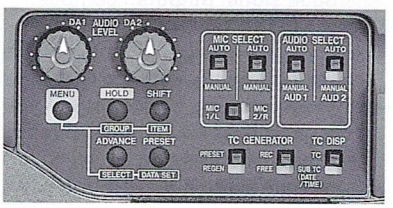
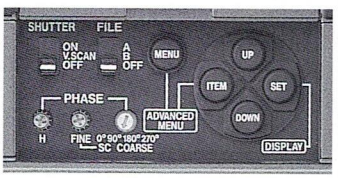
# DY-70E System

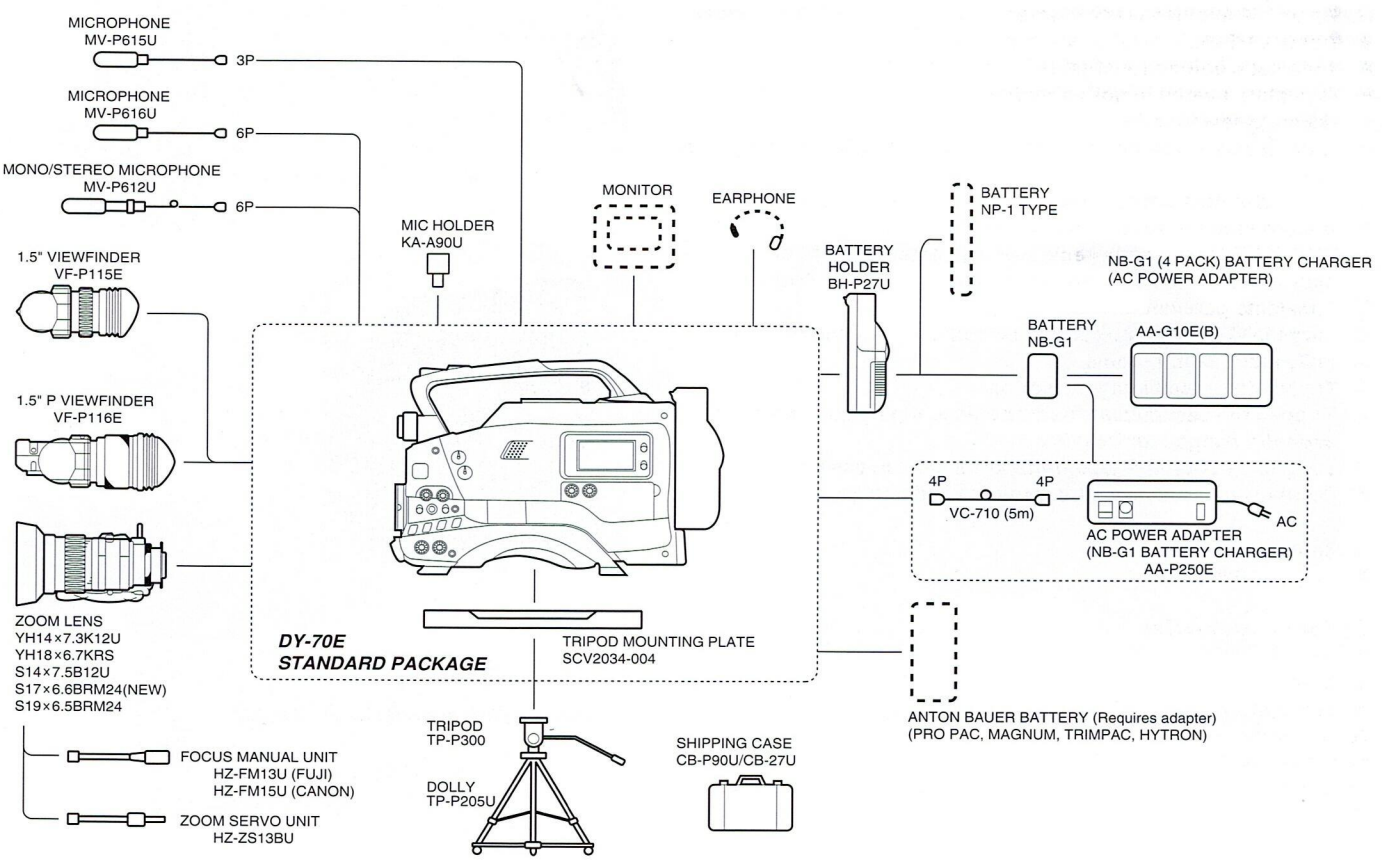
D-9 COMPONENT DIGITAL

COMPONENT DIGITAL 4:2:2

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# Dockable Recorder

D-9 COMPONENT DIGITAL

## BR-D40E

COMPONENT DIGITAL 4:2:2

- High D-9 picture quality with 3.3:1 compression and 8-bit 4:2:2 component digital recording at 50 Mbps
- Up to 2 hours (124 minutes) of uninterrupted recording
- Robust 1/2 inch cassettes
- Docks directly to JVC professional camera KY-D29E, KY-27E/BE/CE, and KY-19E
- Docks with older JVC cameras such as KY-15 and KY-25 with optional adapter.
- Docks with Sony DXC, Hitachi and Ikegami cameras with optional adapters.
- Two 16-bit 48 kHz PCM audio channels
- Records two cue audio tracks
- 10x picture search both directions
- Built-in EBU Time Code Reader/Generator with external input and output. Dual Time code recording.
- Time Code generator may be externally locked. Jam Sync makes possible seamless time code edits.
- Built-in Time Date generator
- Quick review function
- Large LCD display indicates time code, modes and functions
- Analogue signal outputs: composite video + audio
- Colour video playback
- Phantom power supply for microphone inputs
- Field-proven heavy duty die cast chassis with ceramic rollers and centre rotating head design for extremely long life
- Sapphire flanges and tape cleaner for carefree operation
- Fully menu configurable
- Automatic Editing Function (AEF) for smooth cuts
- Built-in monitor speaker and earphone jack

(See specification on page 7.)

**Optional Accessories** (see page 8)

- Power system
- SA-S40U stand-alone adapter
- VC-P454B 4 meter 26-pin to 26-pin cable to camera

Portable system (shown with SA-S40U)

(Shown with optional camera head)



All model numbers, specifications and prices are subject to change without notice.

# Camcorder Specifications

D-9 COMPONENT DIGITAL

COMPONENT DIGITAL 4:2:2



| General | D-9 Camcorder (4: 3) DY-90E | D-9 Camcorder (16: 9/4: 3) DY-90WE | D-9 Camcorder (4: 3) DY-70E | D-9 Dockable Recorder BR-D40E |
|---|---|---|---|---|
| Recording time | Max 124 min with DS-124 cassette | ← | ← | ← |
| Weight | Approx. 6.9 kg including lens, viewfinder, battery and tape | Approx. 7.2 kg including lens, viewfinder, battery and tape | Approx. 6.8 kg including lens, viewfinder, battery and tape | Approx. 3.9 kg |
| Power consumption | Max 33 W, Rec. 29 W including lens and viewfinder | Max 34 W, Rec. 30 W including lens and viewfinder | Max 34 W, Rec. 3.0 W including lens and viewfinder | Max 28 W, Rec. 22 W |
| Battery DC input range | 11-17 V DC | ← | ← | ← |
| Operating temperature | 0 to 40 °C | ← | ← | ← |
| Dimensions | 153.5 (W) x 296 (H) x 368.5 (D) mm | ← | ← | 142 (W) x 266 (H) x 301 (D) |

## Imaging

| | | | |
|---|---|---|---|
| Sensor | 3 x 2/3" Interline transfer CCDs | ← | 3 x 1/2" Interline transfer CCDs |
| Picture elements | 754 (H) x 581 (V) 440,000 | 980 (H) x 582 (V) 570,000 | 752 (H) x 582 (V) 440,000 |
| Optical system | 2/3"F 1.4 RGB prism | ← | 1/2" F1.4 RGB prism |
| Mount | 2/3" bayonet | ← | 1/2" bayonet |
| Filter | 3200K,5600K+1/4 ND, 5600K, 5600K + 1/16 ND | 3200K, 5600K, 5600K + 1/8 ND, 5600K+1/64 ND | 3200K, 5600K+1/8ND 5600K+1/64 ND |
| Sensitivity | F11 / 2000 lux | ← | ← |
| Minimum illumination | F1.4 / 4 lux, +18 dB | ← | ← |
| Lolux minimum illumination | F1.4 / 0.75 lux Lolux mode | ← | ← |
| Synchronisation | Internal/external (auto) (Ves or BB) | ← | ← |
| Registration | 0.05 % without lens, distortion in all area | ← | ← |
| Shutter | 1/50, 1/120, 1/250, 1/500, 1/1000, 1/2000, variable in ALC | ← | ← |
| Variable scan | 50.4 – 1953.1 Hz | 50.1 – 2053.6 | 50.1 – 2067.8 |
| Detail correction | Vertical: 2 H Horizontal:7 MHz,2.5 MHz, and Mix | ← | ← |
| Colour bar | EBU full field | ← | ← |
| Gain | -3, 0, 6, 9, 12, 18 dB Variable gain in ALC and Lolux | ← | ← |

## Recorder Video

| | | | | |
|---|---|---|---|---|
| Tape speed | 57.795 mm/sec. | ← | ← | ← |
| Sampling frequency | Y: 13.5 MHz R-Y / B-Y: 6.75 MHz | ← | ← | ← |
| Compression | 3.3:1, DCT based Intra-frame compression | ← | ← | ← |
| Data rate | 50 Mbps | ← | ← | ← |
| Video input | No | ← | ← | Y,Cb,Cr analogue component via SA-S40U adapter |
| Video output | Composite | ← | ← | ← |

## Recorder Audio

| | | | | |
|---|---|---|---|---|
| Tracks | 4x digital, 2x Cue analogue | ← | ← | ← |
| System | 4 channel PCM 16 bit / 48 kHz | ← | ← | ← |
| Frequency response | 20-20,000 Hz (+1/-1.5dB) | ← | ← | ← |
| Distortion | Less than or equal to 0.1% | ← | ← | ← |
| Cross talk | Less than or equal to -70 dB | ← | ← | ← |
| Audio input | Camera: 1x 6-pin and 3x+48 V XLR –20 dBs/10 kohms balanced, Line: +4 dBs / 10 kohms balanced | ← | ← | Camera: (via 50 pin) –20 dBs / 10 kohms balanced, Line: +4 dBs / 10 kohms balanced |
| Audio output | Line: 0 dBs / low impedance, balanced (XLR-5) Headphone: infinity to -17 dBs, Low impedance | ← | ← | ← |

## Time Code

| | | | | |
|---|---|---|---|---|
| Input / output | 0+/- 6 dBs high impedance | ← | ← | ← |

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# Optional Accessories

D-9 COMPONENT DIGITAL

## DY-90WE/DY-90E/DY-70E/BR-D40E

COMPONENT DIGITAL 4:2:2



**DY-90E**

(Fujinon)
**A19x8.7B12U**
19:1 Power Zoom Lens
**A19x8.7BE12U**
19:1 Power Zoom Lens
(w/2x extender)

**DY-90E/DY-90WE**

(Fujinon)
**A19x8.7BWU**
19:1 Power Zoom Lens
16:9/4:3 switchable

**DY-90E**

(Canon)
**YJ18x9.5BK12U**
18:1 Power Zoom Lens

**DY-70E**

(Fujinon)
**S14x7.5B12U**
14:1 Power Zoom Lens
**S19x6.5B12U**
19:1 Power Zoom Lens

**DY-70E**

(Canon)
**YH14x7.3K12U**
14:1 Power Zoom Lens
**YH18x6.7K12U**
18:1 Power Zoom Lens

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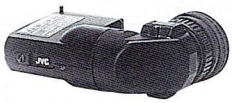
**HZ-ZS13BU**
Zoom Servo/Trigger control

**HZ-FM13U (Fujinon)**
Manual Focus Control

**HZ-FM15U (Canon)**
Manual Focus Control

**VF-P116E/VF-P116WE**
Heavy Duty 1.5" Viewfinder for DY-90E/DY-90WE/DY-70E

**VF-P115E**
1.5" Viewfinder



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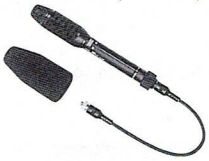
**MV-P612U**
Stereo Microphone 6-pin

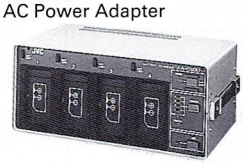


**MV-P615U**
Monaural Microphone XLR for DY-90E

**MV-P616U**
Monaural Microphone 6-pin for DY-70E/DY-90

**AA-P250U**
AC Power Adapter

**AA-G10E**
Battery Charger for NB-G1U
AC Power Adapter



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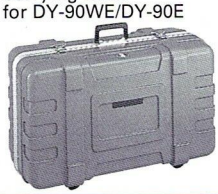
**NB-G1U**
Ni-Cd Battery (2.2Ah)

**KA-A90U**
Mic Holder for DY-90E/DY-70E

**CB-P90U**
Carrying Case for DY-90WE/DY-90E



**NP-1 Type Battery**
(User-supplied battery and holder)

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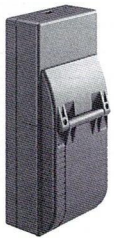
**QR-27**
Anton Bauer Battery Adapter

**BH-P27U**
Battery Holder





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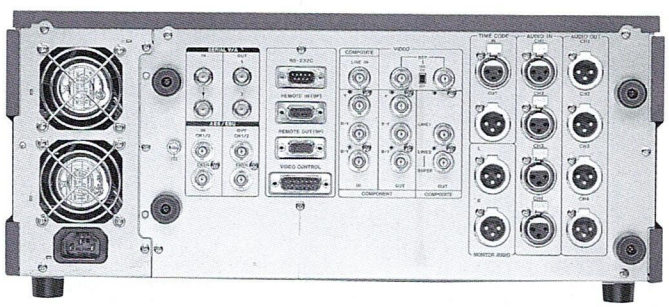
# Studio Recorder and Player

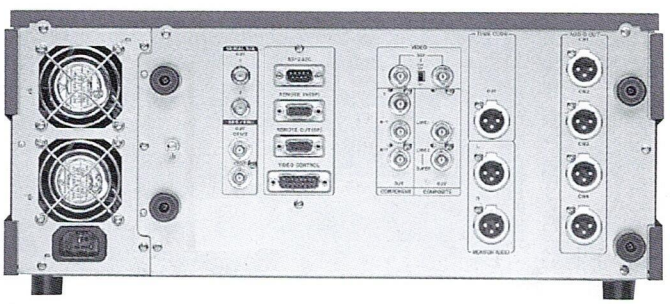
D-9 COMPONENT DIGITAL

## BR-D92E

## BR-D52E

COMPONENT DIGITAL 4:2:2





**BR-D92E Recorder**

- 50 Mbps, 8-bit, 4:2:2 D-9 recording
- Tiltable Front Panel editing control for Recorder and Player
- Built-in edit controller for swap editing
- Four independently editable 16-bit 48kHz PCM audio channels
- Adjustable audio record levels
- Optional serial digital video I/O with four channel embedded audio
- Built-in Pre-read for layering and two machine A/B roll
- Video Pre-read window tolerance range of 5H
- 2-hour recording time with DS-124 cassette
- AES/EBU input with sample rate converter

**Both BR-D92E Recorder and BR-D52E player**

- 50 Mbps, 8-bit, 4:2:2 D-9 playback
- Two-hour playback with DS-124 cassette
- Full front panel TBC control of video level, chroma level, and pedestal level
- Adjustable audio playback levels
- Audible PCM sound in slow motion for precise editing
- ±1/3 variable speed playback (field / frame selectable)
- Jog/shuttle control
- Optional SDI video output with four embedded audio channels
- Analogue I/O: Composite, Component (Y, R-Y, B-Y)
- Balanced 4-channel audio monitor output
- Remote TBC adjustment via Sony compatible 15-pin D-Sub connector
- RS-422A standard control
- RS-232C control and serial port for diagnostics
- LTC time code with balanced I/O
- Rugged die cast chassis using ceramic tape guide rollers and sapphire flanges for long life
- Centre rotating head design for long head life

**Options**

- SA-D92U 4-channel embedded audio SDI I/O board for BR-D92E
- SA-D52U 4-channel embedded audio SDI I/O board for BR-D52E
- SA-K67U rack mount

All model numbers, specifications and prices are subject to change without notice.

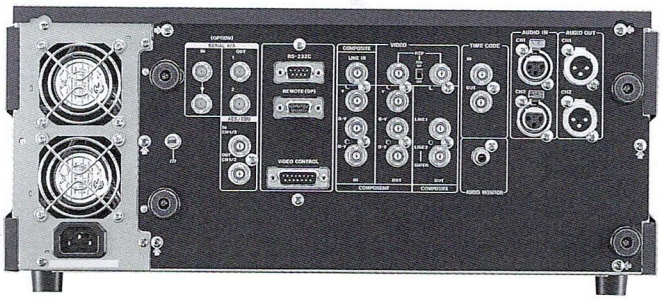
# Studio Recorder and Player

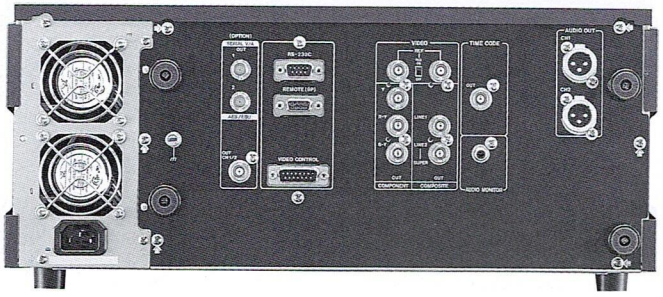
D-9 COMPONENT DIGITAL

## BR-D860E

## BR-D560E

COMPONENT DIGITAL 4:2:2





### BR-D860E Editing Recorder

- 50 Mbps, 8-bit, 4:2:2 D-9 recording
- Two independently editable 16-bit, 48 kHz PCM audio channels
- Optional serial digital video I/O with two channel embedded audio
- Built-in pre-read for layering and two machine A/B roll
- Built-in pre-read window tolerance range of 5H
- 2-hour recording time with DS-124 cassette
- Assemble/insert editing with appropriate editing controller
- Frame-by-frame editing
- Analogue I/O: Composite, component (Y, R-Y, B-Y)
- LTC time code with balanced I/O

### BR-D860E Recorder and BR-D560E Player

- 50 Mbps, 8-bit, 4:2:2 D-9 playback
- Optional SDI video output with two channel embedded audio
- Adjustable audio level
- Audio V-fade function
- Chroma filter to improve analogue performance
- 2-hour playback with DS-124 cassette
- Audible PCM sound in slow motion for precise editing
- ±1/3 variable speed playback (field/frame selectable)
- Jog/shuttle control
- Analogue output: Composite, component (Y, R-Y, B-Y)
- Balanced 2 channel audio monitor output
- Remote TBC adjustment via 15-pin D-sub connector
- RS-422A standard control
- RS-232C serial port for standard control and diagnostics
- Viterbi circuit to improve the error rate
- LTC time code with balanced output
- Instantaneous-lock function
- Rugged die-cast chassis using ceramic tape guide rollers and sapphire flanges for long life
- Centre rotating head design for long head life
- High speed auto tracking

### Options

- SA-D92U embedded audio SDI I/O board for BR-D860E
- SA-D52U embedded audio SDI output board for BR-D560E
- SA-K67U rack mount



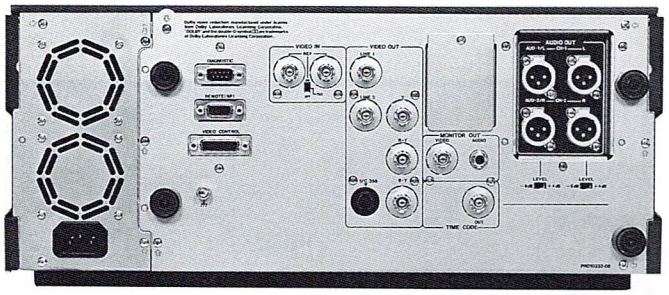
All model numbers, specifications and prices are subject to change without notice.

# Broadcast Feeder/Player

D-9 COMPONENT DIGITAL

## BR-D51E

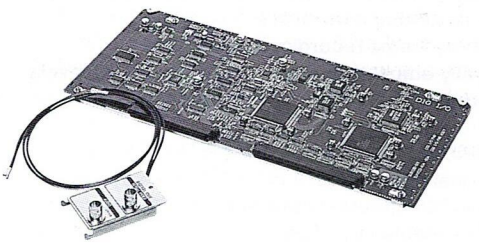
S-VHS 625 | COMPONENT DIGITAL 4:2:2



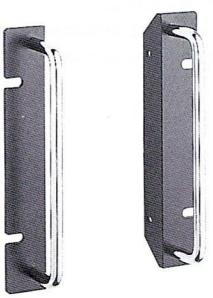
- D-9/S-VHS dual-format editing feeder/player
- High quality 50 Mbps, 8-bit, 4:2:2 D-9 playback (digital)
- 2-hour (124 minutes) playback time with DS-124 cassette
- 3-hour S-VHS playback (analog)
- Two 16 bit 48 kHz PCM audio channels
- Two S-VHS Hi-Fi audio plus two S-VHS normal audio channel outputs
- ±1/3 variable speed playback (field / frame selectable) in D-9 mode
- Jog/shuttle control
- Analogue input: Composite, Y/C, Component (Y, R-Y, B-Y)
- Two D-9 cue audio tracks for precise audio editing
- Front panel TBC adjustment of System, SC and video phases
- Remote TBC adjustment via 15-pin D-Sub connector including video level, chroma level, and pedestal level
- RS-422A standard editing and control with external editing controllers
- RS-232C serial port for diagnostics
- LTC/VITC time code
- Rugged die cast chassis using ceramic tape guide rollers and sapphire flanges for long life
- Centre rotating head design for long head life

**Options**

- SA-D50U: Optional SMPTE 259U serial digital output and optional AES/EBU serial audio output
- SA-K67U: Rack mount
- RM-G22U: TBC remote control unit



**SA-D50U**
**Serial Digital Interface**



**SA-K67U**
**D-9 Series Rack Mount**

All model numbers, specifications and prices are subject to change without notice.

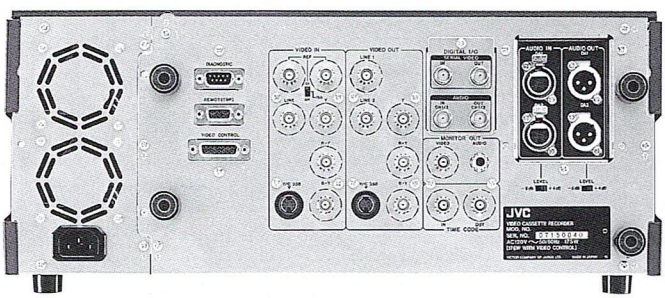
JVC PROFESSIONAL

# Professional Editing Recorder/Player

D-9 COMPONENT DIGITAL

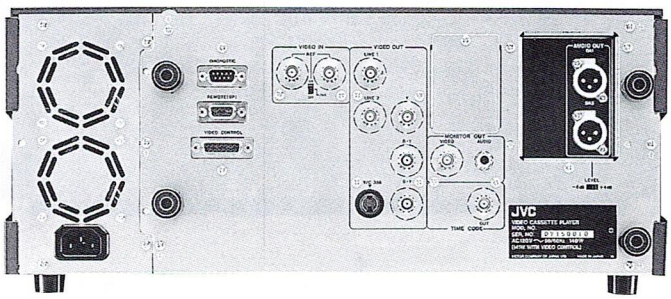


## BR-D750E




## BR-D350E

COMPONENT DIGITAL 4:2:2




**BR-D750E Recorder**

- High quality 50 Mbps, 8-bit, 4:2:2 D-9 recording
- RS-422A standard assemble/insert editing and control with external editing controllers
- Frame-by-frame recording and editing
- Manually adjustable analogue audio record levels
- Re-generation of external time code, or Jam sync

**Both BR-D750E Recorder and BR-D350E player**

- High quality 50 Mbps, 8-bit, 4:2:2 D-9 playback
- 2-hour (124 minutes) duration with DS-124 cassette
- +/- 1/3 variable speed playback (field / frame selectable)
- Analogue I/O: Composite, Y/C, Component (Y, R-Y, B-Y)
- Two independently editable 16-bit 48 kHz PCM audio channels
- Two cue audio tracks allow monitoring at slow and search speeds
- Remote TBC adjustment via 15-pin D-Sub connector
- RS-422A control & RS-232C serial port for diagnostics
- LTC/VITC time code
- Rugged die cast chassis using ceramic tape guide rollers and sapphire flanges for long life

**Options**

- SA-D80U: Optional SMPTE 259U serial digital I/O and optional AES/EBU serial audio I/O (BR-D750E)
- SA-D50U: Optional SMPTE 259U serial digital output and optional AES/EBU serial audio output (BR-D350E)
- SA-K67U: Rack mount
- RM-G22U: TBC remote control unit

**RM-G22U**
**TBC Remote Control Unit**



All model numbers, specifications and prices are subject to change without notice.

# Specifications

D-9 COMPONENT DIGITAL

COMPONENT DIGITAL 4:2:2



| General | | Recorder BR-D92E | Player BR-D52E | Recorder BR-D860E | Player BR-D560E | D-9/S-VHS Player BR-D51E* | Recorder BR-D750E | Player BR-D350E |
|---|---|---|---|---|---|---|---|---|
| Rec/PB time | | 124 min. (DS-124) | ← | ← | ← | ← | ← | ← |
| FF/Rew time | | 3 min. (DS-124) | ← | ← | ← | ← | ← | ← |
| Picture search | | ±32 x visible picture | ← | ← | ← | ← | ← | ← |
| Slow motion | | ±1/3 x with full picture quality (remote required) | ← | ← | ← | ← | ← | ← |
| Tape | | 1/2 inch metal particle | ← | ← | ← | ← | ← | ← |
| Tape speed | | 57.795 mm/s | ← | ← | ← | ← | ← | ← |
| Tracks (video / audio) | | 12 per frame | ← | ← | ← | ← | ← | ← |
| Track pitch | | 20 nanometer | ← | ← | ← | ← | ← | ← |
| Control track | | 1 | ← | ← | ← | ← | ← | ← |
| Audio cue tracks | | 2 | ← | ← | ← | ← | ← | ← |
| Head drum diameter | | 62 mm | ← | ← | ← | ← | ← | ← |
| Head rotation | | 4500 rpm | ← | ← | ← | ← | ← | ← |
| Dimensions | | 429 (W) x 188 (H) x 567 (D) mm (16-15/16" x 7-7/16" x 22-3/8") | | 429 (W) x 174 (H) x 569 (W) mm (16-15/16" x 6-7/8" x 22-7/16") | | 429 (W) x 188 (H) x 567 (D) mm (16-15/16" x 7-7/16" x 22-3/8") | | |
| Weight | | 25 kg (55.1 lbs) | 24 kg (52.9 lbs) | 23 kg (50.7 lbs) | 23 kg (50.7 lbs) | 23 kg (50.7 lbs.) | ← ← | 22 kg (48.5 lbs.) |
| Power consumption | | 180 W | 160 W | 140 W | 100 W | 180 W | ← | 160 W |
| Power requirement | | AC 220 to 240 V 50/60 Hz | ← | ← | ← | ← | ← | ← |
| Temp | Operating | 5°C to 40°C (41°F to 104°F) | | ← | ← | ← | ← | |
| | Storage | -20°C to 60°C (-4°F to 140°F) | | ← | ← | ← | ← | ← |
| Humidity | | 30% to 80% | | ← | ← | ← | ← | ← |

**Video**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Sampling | | 4:2:2 8-bit | ← | ← | ← | ← | ← | ← |
| | Y | 13.5 MHz | ← | ← | ← | ← | ← | ← |
| | R-Y/B-Y | 6.75 MHz | ← | ← | ← | ← | ← | ← |
| Compression | | 3.3:1 DCT based intraframe coding | | ← | ← | ← | ← | ← |
| Data rate | | 50 Mbps | ← | ← | ← | ← | ← | ← |
| Frequency response (SDI in, analogue out) | Y | 25 to 5.75 MHz, +0.5 / -2.0 dB (analogue out) | | ← | ← | 25 to 4.5 MHz, +1.01 / -2.0 dB (analogue out) | | ← |
| | R-Y/B-Y | 25 to 2.75 MHz, +/-1.0 dB | ← | ← | ← | ← | ← | ← |
| S/N (SDI in analogue out) | | 55 dB | ← | ← | ← | ← | ← | ← |
| Pre-read window | | 5H | - | 5H | - | - | - | - |
| SDI I/O (unbalanced) | | option w/ embedded audio | | option | ← | ← | ← | ← |
| Analogue I/O (75 ohms unbalanced) | Composite | 1Vp-p | | ← | ← (out) | ← (out) | ← | ← (out) |
| | Y/C: | Not available | Not available | ← | ← | ← (out) | ← | ← (out) |
| | | | | ← | ← | | | |
| | Component | Y: 1 Vp-p ← (out) R-Y / B-Y: 0.7 Vp-p | | ← | ← (out) | ← (out) | ← | ← (out) |
| | Reference | 0.45Vp-p (loop | | ← | ← | ← | ← | ← |

**Video Control Adjustment range**

| | | | | | | |
|---|---|---|---|---|---|---|
| System sync phase | ±3 nanoseconds or more | ← | ← | ← | ← | ← |
| System SC phase | 360 degrees or more | ← | ← | ← | ← | |
| Video phase | ±1.0 nanoseconds or more | | ← | ← | ← | ← |
| Video level | ±3 dB or more | ±3 dB or more (remote required) | | ← | ← | ← |
| Chroma level | ±3 dB or more | ±3 dB or more (remote required) | | ← | ← | ← |
| Setup level | 0 mV or less to 100 mV | 0 mV or less to 100 mV or more (remote required) | | ← | ← | ← |

**Audio**

| | | | | | | |
|---|---|---|---|---|---|---|
| System | 4ch PCM, 32/48 kHz, 16 bit | 2ch PCM, 48 kHz, 16 bit | ← | ← | | |
| Frequency response | 20 to 20,000 Hz +1/-1.5 dB | ← | ← | ← | ← | ← |
| Dynamic range | More than 85 dB (at 1 kHz) | ← | ← | ← | ← | ← |
| Distortion | Less than 0.1% (1 kHz at operation level) | ← | ← | ← | ← | ← |
| Crosstalk | Less than -75 dB (at 1 kHz) | ← | ← | ← | ← | ← |
| Headroom | 18 dB ← | 20 dB | ← | ← | ← | |
| Emphasis | Automatic switching in play | ← | ← | ← | ← | ← |
| Wow and flutter | Below measurable level | ← | ← | ← | ← | |
| SDI I/O | option (embedded) | option (embedded) | option | ← | ← | ← | ← |
| Analogue input | Line: -6 / 0 / +4 dB high impedance balanced (recorder only) | | | | ← | na |
| Analogue output | Line: -6 / 0 / +4 dB high impedance balanced | | | | ← | ← |
| Monitor | -6 dB low impedance balanced | | ← | ← | ← | ← |
| Headphones | Infinity to -20 dBs, 8 ohms | | ← | ← | ← | ← |

* D-9 specifications only.

All model numbers, specifications and prices are subject to change without notice.

JVC PROFESSIONAL

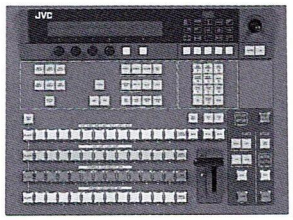
**RM-G820E**
Pre-read Editing Controller

**See page 64.**

**RM-G870E**
Multi-event A/B Roll
Editing Controller

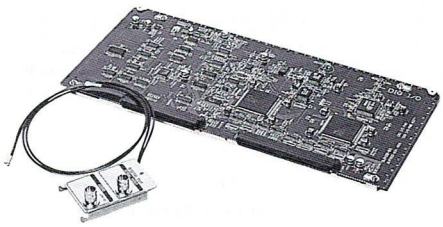
**See page 65.**

**KM-5000E**
Digital Vision Mixer

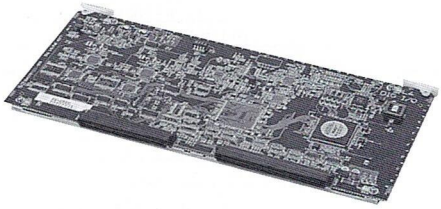


**See page 28.**

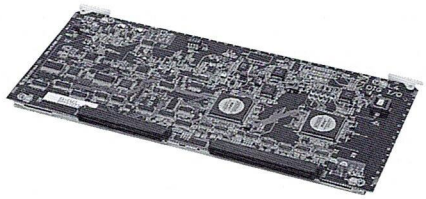
**SA-D50U**
SDI Output for BR-D51E



**SA-D52U**
SDI Output for BR-D52E
(embedded audio)

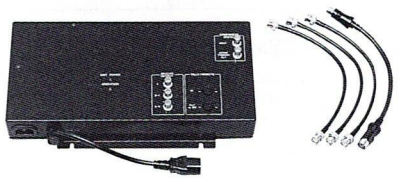


**SA-D92U**
SDI I/O for BR-D92E
(embedded audio)



**JVC SDI monitors**
TM-1050PND 10" (page 74)
TM-1750PND 17" (page 77)

**IF-C2000SDE**
SDI Input for JVC
Component Monitor

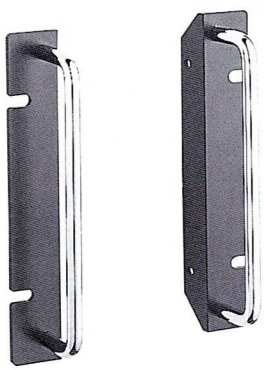


**See page 79.**

**RM-G22U**
TBC Remote Control for D-9

**VC-G9050U**
9-pin Remote Cable (5 m)
for Edit Control

**SA-K67U**
D-9 Rack Mount






All model numbers, specifications and prices are subject to change without notice.

# Digital Video Cassettes

D-9 COMPONENT DIGITAL

# DS-124/DS-104/DS-64/DS-34



- **High-performance half-inch Metal Particle Tape**
  **Applying new ultra-fine metal magnetic particle technology, D-9 half-inch tapes are engineered for high-density recording with high-output, low error rate and high levels of reliability.**
- **Dust-proof cassette shell exclusive to D-9**
  **An innovative high-precision cassette shell features a static electricity free lid and a robust mechanism for stable tape recording and playback, as well as high durability.**
- **Record for 2 hours without reloading**
  **Maximum digital recording time is 124 minutes. 104, 64 and 34 minute tapes also available.**

**DS-124**
**124 minute tape**

**DS-104**
**104 minute tape**

**DS-64**
**64 minute tape**

**DS-34**
**34 minute tape**

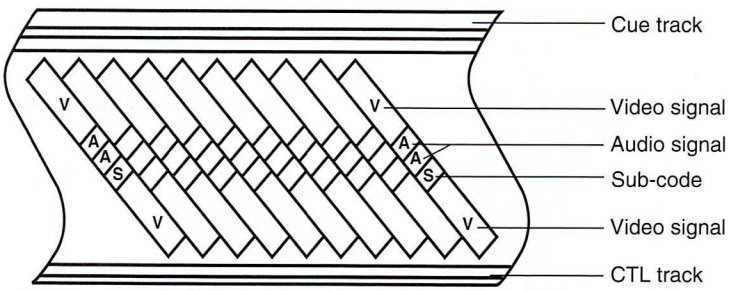
**DS-10**
**10 minute tape**

**DCL-5**
**Cleaning tape**

| Item | | Unit | D-9 |
|---|---|---|---|
| Basic specifications | Magnetic particles | — | Metal particles |
| | Bit error rate | — | Less than $1 \times 10^{6}$ |
| Dimensions/ Physical properties | Tape width | mm | 12.65 |
| | Tape width variation | pm (PP) | 2.0 |
| | Tape thickness | pm | 14.4 |
| | Yield point load | N (kg) | 21 (2.1) |
| | Surface electrical resistance | ohm/sq | 1 x 10' |
| Magnetic properties | Coercive force | KA/m | 145.1 |
| | Maximum residual flux density | mT | 310 |
| Video properties | RF output (9.5 MHz)* | dB | 0 |
| | HF output (11 MHz)* | dB | 0 |
| | Video S/N* | dB | 0 |

*Difference with JVC D-9 Reference Tape

**Recording pattern of D-9 tape**




All model numbers, specifications and prices are subject to change without notice.

JVC PROFESSIONAL

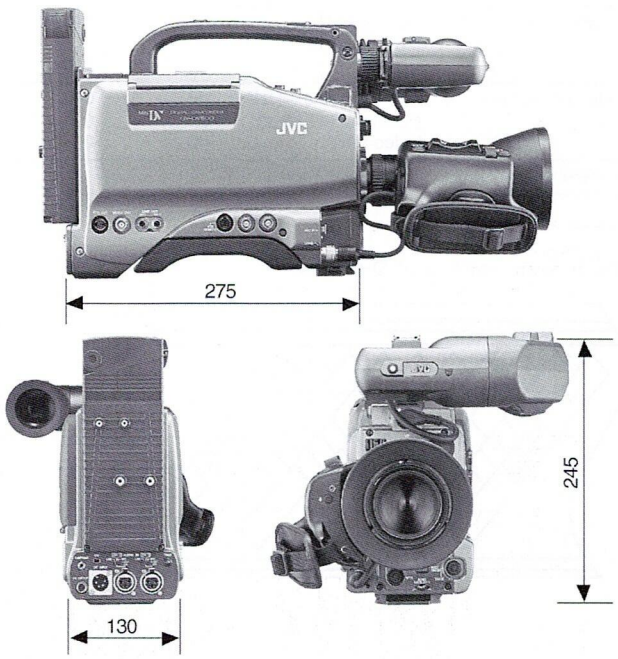
# GY-DV500E

Mini DV PAL



- Combining convenience and cost-effectiveness of MiniDV with professional performance and features
- 800 TV lines equivalent horizontal resolution from camera head
- 14-bit digital signal processing
- Up to 60 minutes of high-quality component digital images recorded on a single readily available and inexpensive MiniDV tape
- Very compact, lightweight design weighing only 5 kg (11 lbs.)
- Three 1/2" 440,000-pixel CCDs
- Advanced circuitry virtually eliminates vertical smear when shooting bright lights, as well as lag and image burn
- F1.4 prism optical system helps to yield F11 at 2000 lux
- Lolux mode captures high-quality video footage with excellent colour balance at just 0.75 lux illumination
- IEEE 1394 (DV) output for lossless digital video and audio transfers to any DV equipped device such as a non-linear editing system or DV recorder
- Basic controls are available via the DV connector or RS-232C port, make the GY-DV500E ideal as a spooler or player in an editing system
- Standard professional 1/2" bayonet lens mount, for the widest selection of lenses
- Outstanding digital PCM sound: Choose between two 16-bit 48-kHz channels or two 12-bit 32-kHz channels with a dynamic range of more than 85 dB
- Viewfinder displays various events, camera settings, recorder operation, and selected setup parameters
- Super Scene Finder (SSF) lets you log scenes automatically or manually in the field, and mark which scenes are good. This speeds up the transfer process and saves disk space, because now you can batch digitise only those scenes needed for editing. Scene data is written directly onto the MiniDV cassette, eliminating need for special higher priced cassettes. Up to 119 scenes can be marked per cassette
- Scene data from last 6 cassettes held in camcorder memory, allowing data to be downloaded via the RS-232C to a PC to create a log file or EDL file at a later time.
- Menu dial serves to quickly and easily navigate through viewfinder menu, as well as set shutter speed
- Full auto shooting for one-touch automatic operation
- Continuous auto black (CAB)
- Full auto white
- Automatic level control (ALC) for continuous automatic control of gain
- Back tally lamp for letting talent behind the camcorder know you are shooting
- Precision "Accu-focus" mode for easy, precise lens focusing
- Back-lit LCD display for VTR menu and status indications
- Tape/battery remaining indicator
- Variable scan view for shooting computer screens
- Sync lock mode for multi-camera shooting (genlock)
- Black stretch/compress for enhancing or suppressing shadow areas
- Adjustable gamma for adjusting the "feel" of the picture according to taste for light or dark detail
- Adjustable detail frequency for setting picture sharpness for a bolder or finer look
- EBU time code reader/generator
- Professional XLR Audio with phantom microphone power
- EBU type colour bars

(UNIT:mm)

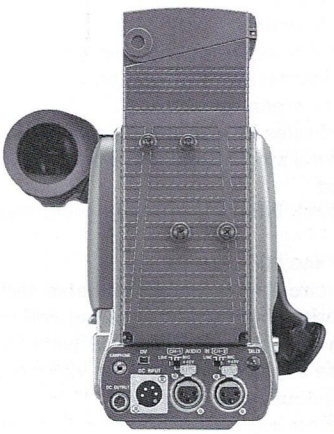


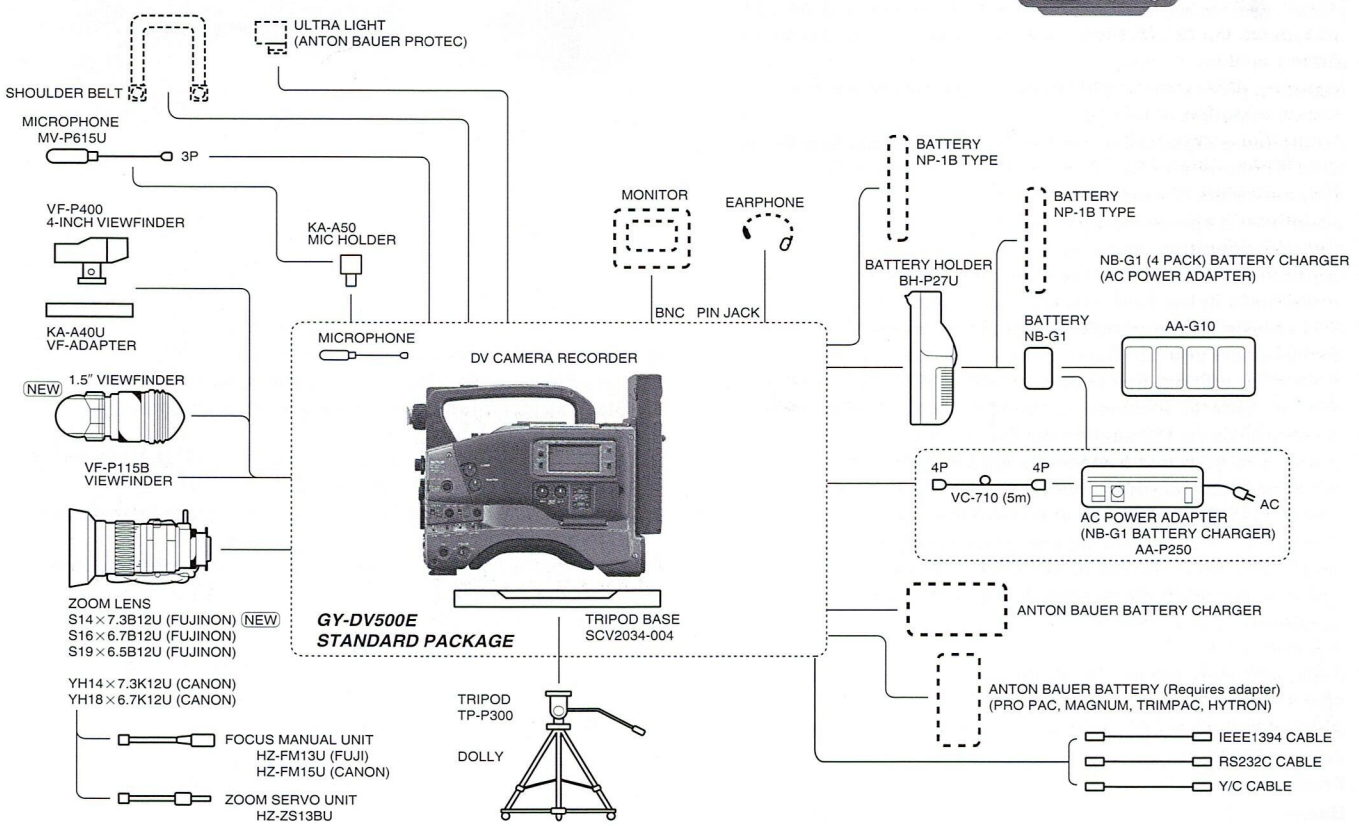



All model numbers, specifications and prices are subject to change without notice.

# GY-DV500E

Mini DV PAL






All model numbers, specifications and prices are subject to change without notice.

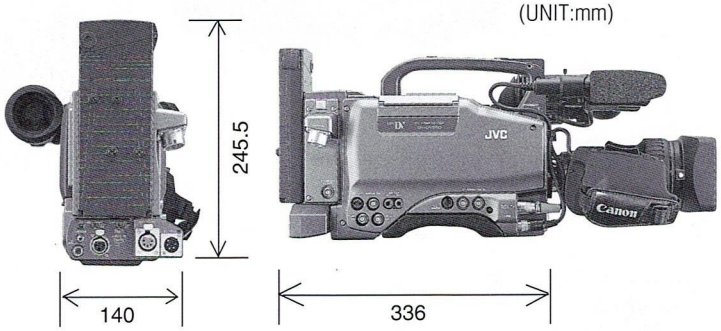
# GY-DV550E

Mini DV PAL



- World's first DV camcorder to offer studio camera capability in addition to a ENG camera and Iso-camera capabilities Built-in 26-pin interface to connect to a CCU for remote-controlled studio operation or backup recorder in the field
- IEEE 1394 (DV) output for lossless digital video and audio transfers to any DV equipped device such as a non-linear editing system or DV recorder
- 800 TV lines equivalent horizontal resolution from camera head
- Pool lead input/output, allowing to transfer image data back and forth to another camera or cameras
- Ready for EFP remote control (RM-LP57/LP55)
- EBU time code reader/generator
- EBU time code input/output
- Video input function, allowing you to use the GY-DV550E as a standard video recorder
- Return video output for Tele-Prompter
- Time date stamp
- Skin tone detection
- Combining convenience and cost-effectiveness of MiniDV with professional performance and features
- 14-bit digital signal processing
- Up to 60 minutes of high-quality component digital images recorded on a single readily available and inexpensive MiniDV tape
- Very compact, lightweight design weighing only 5.8 kg (12.8 lbs.)
- Three 1/2" 440,000-pixel CCDs
- Advanced circuitry virtually eliminates vertical smear when shooting bright lights, as well as lag and image burn
- F1.4 prism optical system helps to yield F11 at 2000 lux
- Lolux mode captures high-quality video footage with excellent colour balance at just 0.75 lux illumination
- Basic controls are available via the DV connector or RS-232C port, make the GY-DV550E ideal as a spooler or player in an editing system
- Standard professional 1/2" bayonet lens mount, for the widest selection of lenses
- Outstanding digital PCM sound: Choose between two 16-bit 48-kHz channels or two 12-bit 32-kHz channels with a dynamic range of more than 85 dB
- Viewfinder displays various events, camera settings, recorder operation, and selected setup parameters
- Super Scene Finder (SSF) lets you log scenes automatically or manually in the field, and mark which scenes are good. This speeds up the transfer process and saves disk space, because now you can batch digitise only those scenes needed for editing. Scene data is written directly onto the MiniDV cassette, eliminating need for special higher priced cassettes. Up to 119 scenes can be marked per cassette
- Scene data from last 6 cassettes held in camcorder memory, allowing data to be downloaded via the RS-232C to a PC to create a log file or EDL file at a later time.
- Menu dial serves to quickly and easily navigate through viewfinder menu, as well as set shutter speed
- Full auto shooting for one-touch automatic operation
- Continuous auto black (CAB)
- Full auto white
- Automatic level control (ALC) for continuous automatic control of gain
- Back tally lamp for letting talent behind the camcorder know you are shooting
- Precision "Accu-focus" mode for easy, precise lens focusing
- Back-lit LCD display for VTR menu and status indications

(UNIT:mm)



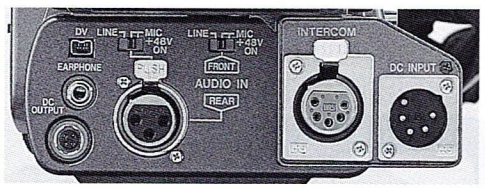

- Tape/battery remaining indicator
- Variable scan view for shooting computer screens
- Black stretch/compress for enhancing or suppressing shadow areas
- Adjustable gamma for adjusting the "feel" of the picture according to taste for light or dark detail
- Adjustable detail frequency for setting picture sharpness for a bolder or finer look
- Professional XLR Audio with phantom microphone power
- EBU type colour bars
- Genlocking function

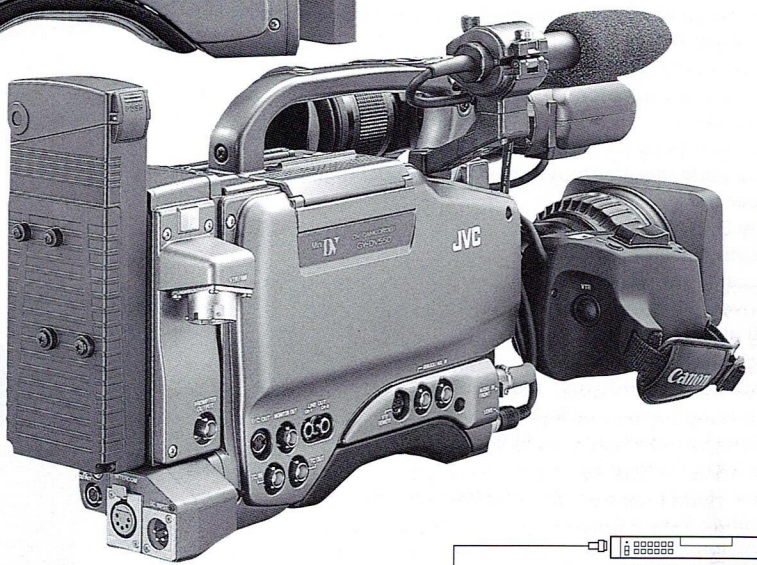


All model numbers, specifications and prices are subject to change without notice.

# GY-DV550E

Mini DV PAL




ULTRA LIGHT
(ANTON BAUER PROTEC)

SHOULDER BELT

MICROPHONE
MV-P615U

3P

VF-P400
4-INCH VIEWFINDER

KA-A50
MIC HOLDER

KA-A40
VF ADAPTER

(NEW) 1.5" VIEWFINDER

VF-P115B
VIEWFINDER

ZOOM LENS
S14×7.3B12U (FUJINON) (NEW)
S16×6.7B12U (FUJINON)
S19×6.5B12U (FUJINON)

YH14×7.3K12U (CANON)
YH18×6.7K12U (CANON)

FOCUS MANUAL UNIT
HZ-FM13U (FUJI)
HZ-FM15U (CANON)

ZOOM SERVO UNIT
HZ-ZS13BU

REMOTE CONTROL UNIT
RM-LP55U

TRIPOD
TP-P300

DOLLY

CARRYING CASE
CB-P28

VC-P110 SERIES CABLE
VC-P110(5m) 26P
VC-P112(20m) 26P
VC-P113(50m) 26P
VC-P114(100m) 26P

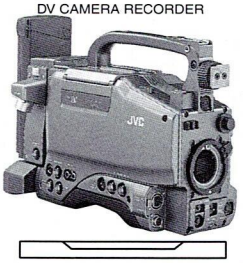
MONITOR

EARPHONE

BNC PIN JACK

MICROPHONE

DV CAMERA RECORDER




***GY-DV550E***
***STANDARD PACKAGE***

TRIPOD BASE
SCV2034-004

REMOTE CONTOROL UNIT
PM-P200/300

(NEW) REMOTE CONTOROL UNIT
RM-P210

BATTERY
NP-1B TYPE

BATTERY
NP-1B TYPE

BATTERY HOLDER
BH-P27U

NB-G1 (4 PACK) BATTERY CHARGER
(AC POWER ADAPTER)

BATTERY
NB-G1

AA-G10

4P — VC-710 (5m) — 4P
AC
AC POWER ADAPTER
(NB-G1 BATTERY CHARGER)
AA-P250

ANTON BAUER BATTERY CHARGER

ANTON BAUER BATTERY (Requires adapter)
(PRO PAC, MAGNUM, TRIMPAC, HYTRON)

IEEE1394 CABLE

RS232C CABLE

Y/C CABLE

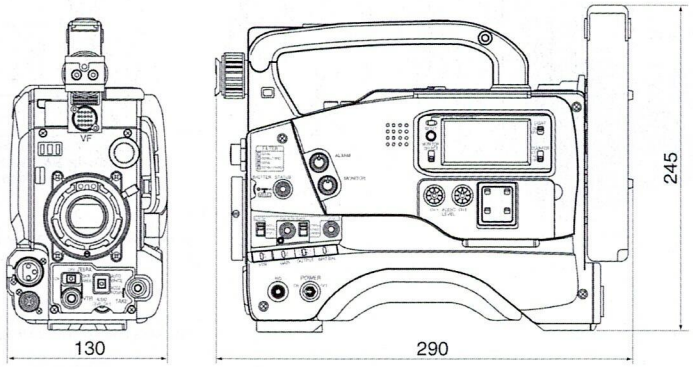
All model numbers, specifications and prices are subject to change without notice.

# GY-DV700WE

Mini DV PAL



- Specifically designed to meet increasing demands for affordable, high-performance ENG/EFP/Electronic Cinematography
- Three advanced 2/3-inch CCDs
- Switchable 16:9/4:3 capability
- JVC original high-performance dual-pipeline 14-bit DSP (Digital Signal Processing)
- Professional DV recording on a MiniDV tape
- EBU TC input/output allows synchronization of multiple cameras
- F11@2000 lux
- Versatile design that lets you use matte boxes and prime lenses.
- Manual gamma, knee and master black adjustments
- Full Auto White
- Black stretch/compression
- Zebra level indicator
- IEEE 1394
- Two 48 kHz 16-bit digital PCM audio channels
- Time code input/output and a built-in EBU time code reader/generator
- Only 3 kg for the main unit
- Viewfinder status display
- Super scene finder
- Convenient menu dial
- Full auto shooting
- Back tally lamp
- Precision "accu-focus" mode
- Continuous auto black (CAB)
- Automatic level control (ALC)
- Back-lit LCD display
- Tape/battery remaining indicator
- Variable scan view
- Sync lock mode
- Adjustable detail frequency
- Built-in phantom microphone power

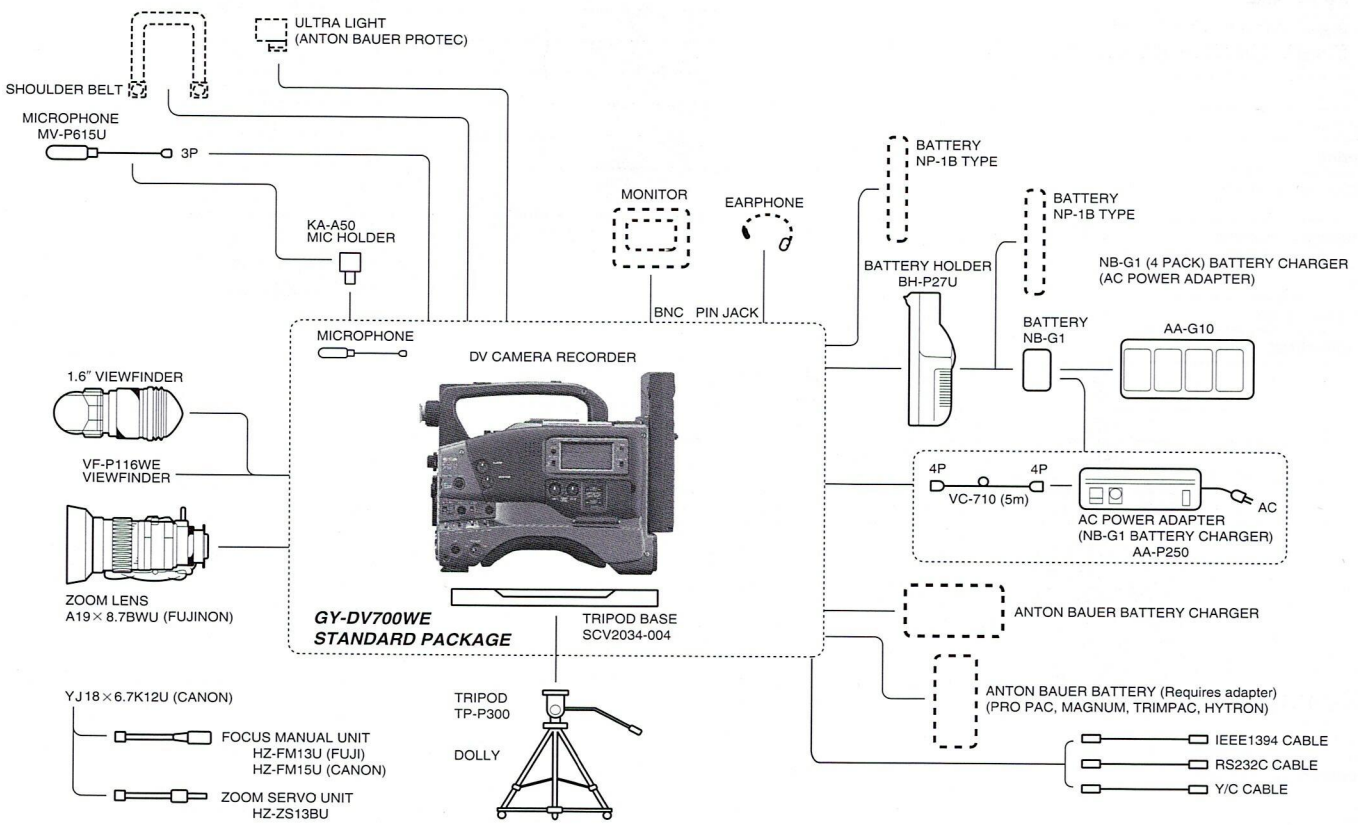



(UNIT:mm)



All model numbers, specifications and prices are subject to change without notice.

# GY-DV700WE System




All model numbers, specifications and prices are subject to change without notice.

JVC PROFESSIONAL

# GY-DV500E / GY-DV550E / GY-DV700WE Specifications

PROFESSIONAL DV



| GENERAL | GY-DV500E | GY-DV550E | GY-DV700WE |
|---|---|---|---|
| Power requirements: | DC 10.5 V to 17 V | ← | ← |
| Power consumption: | Approx. 20 W | ← | ← |
| Dimensions: | 275 (W) x 245 (H) x 130 (D) mm | 336 (W) x 245.5 (H) x 140 (D) mm | 290 (W) x 245 (H) x 130 (D) mm |
| Weight: | 5 kg including lens, viewfinder, battery, microphone and tape | 5.8 kg including lens, viewfinder, battery, microphone and tape | 5.5 kg including lens, viewfinder, battery, microphone and tape |
| Temperature: | Operating: 0°C to 40°C/Storage: -20°C to 60°C | ← | ← |
| Humidity: | Operating: 30% to 80% RH<br>Storage: 85% RH or less | ← | ← |
| **CAMERA SECTION** | | | |
| Image pickup device: | 1/2" interline-transfer CCDs | ← | 2/3" 16:9 switchable interline-transfer CCDs |
| Colour separation optical system: | F1.4, 3-colour separation prism | ← | ← |
| Number of effective pixels: | 440,000 (752 (H) x 582 (V)) | ← | 570,000 (980 (H) x 582 (V)) |
| Resolution: | 800 TVL performance (in camera) | More than 750 lines (output) | 700 16:9/4:3 TVL performance in camera |
| Colour system: | PAL (R-Y, B-Y encoder) | ← | ← |
| Colour bars: | EBU type | ← | ← |
| Sync system: | Internal sync, external sync (VBS) | ← | ← |
| Lens mount: | 1/2" bayonet system | ← | 2/3" bayonet system |
| Optical filter: | 3200K, 5600K, 5600K + 1/64ND | 3200K, 5600K + 1/8 ND, 5600K + 1/64 ND | 3200K, 5600K, 5600K + 1/8 ND / 5600K + 1/64 ND |
| Sensitivity: | F11, 2000 lux | ← | ← |
| Gain: | -3, 0, 6, 9, 12, 18 dB, variable gain in ALC and LOLUX | ← | ← |
| Minimum illumination: | 0.75 lux with F1.4, LOLUX | ← | ← |
| Registration: | 0.05% or less (excluding lens distortion) | ← | ← |
| Detail correction: | Horizontal and vertical dual-edged | ← | ← |
| Electronic shutter variable range: | Standard value: 50 Hz<br>Fixed values: 120, 250, 500, 1000, 2000 Hz<br>Variable scan: 50.1 to 2067.8 Hz | ← | ← |
| **VTR SECTION** | | | |
| Format: | DV format | ← | ← |
| Signal format: | PAL | ← | ← |
| Usable tape: | MiniDV tape | ← | ← |
| Tape speed: | 18.831 mm/sec. (SP mode) | ← | ← |
| Record/play time: | 60 minutes or more (with an MDV-60 tape) | ← | ← |
| FF/rewind time: | Within 120 sec. (with an MDV-60 tape) | ← | ← |
| **[Video]** | | | |
| Video signal recording format: | 8-bit, 13.5 MHz, 4:2:0 component recording | ← | ← |
| S/N: | 47 dB or more | ← | ← |
| Resolution: | 500 TVL or more (monitor out) | ← | ← |
| **[Audio]** | | | |
| Audio signal recording format: | 16-bit, 48 kHz or 12-bit, 32 kHz PCM for 2 channels | ← | ← |
| Frequency response: | 20 Hz to 20 kHz (16-bit), 20 Hz to 14.5 kHz (12-bit) | ← | ← |
| S/N: | 60 dB or more | ← | |
| Dynamic range: | 85 dB or more | ← | |
| **[Connectors]** | | | |
| Video output: | 1.0 Vp-p, 75 ohms (BNC)<br>(composite video signal) | ← | ← |
| Y/C output: | Y/C signal, 4-pin, 75 ohms, unbalanced | ← | ← |
| Audio inputs<br>(AUDIO 1, AUDIO 2) | MIC: -60 dBs, low impedance (XLR), balanced<br>LINE: +4 dBs, 10 kohms, balanced | ←<br>← | ←<br>← |
| Line outputs (LINE 1, LINE 2): | -6 ± 1 dBs, low impedance (RCA), unbalanced | ← | ← |
| IEEE 1394 interface: | 4-pin | ← | ← |
| RS-232C interface: | Mini DIN 6-pin | ← | ← |
| VF connector | 6-pin | ← | 20-pin |
| Video input | None | Available | None |
| Earphone jack | Mini jack | ← | ← |
| Time code input / out put | None | Available | Available |
| Sync input | Available | Genlock input | Available |
| **Included accessories:** | Instruction manual<br>Tripod mounting plate<br>Microphone | ← | ← |



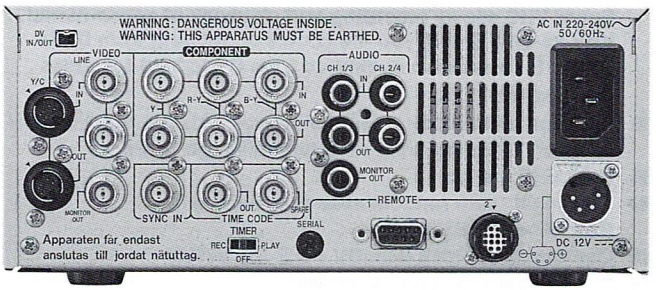
All model numbers, specifications and prices are subject to change without notice.

# BR-DV600E

Mini DV PAL



- **Up to 80 minutes* of high-quality DV component digital images can be recorded on a single readily available and inexpensive MiniDV tape, assuring the high-quality, non-degradable images needed for top results in post-production**
  *With an MDV-80 tape
- **Outstanding digital PCM sound: Choose between two 16-bit 48-kHz channels or two 12-bit 32-kHz channels**
- **AC/DC driving**
- **Very compact, lightweight design weighing only 4 kg (8.8 lbs.)**
- **Various editing functions such as insert editing, assemble editing and audio dubbing (usable functions vary depending on the editing controller used)**
- **EBU/SMPTE-standard LTC time code generator**
- **Menu system on LCD and on-screen display**
- **External sync input connector**
- **External timer recording/playback**
- **Ideal for interfacing with virtually any editing system—linear or non linear**
- **IEEE 1394 in and out allows direct computer/NLE connectivity**
- **Digitally spools directly back to a non-linear editing platform and downloads directly back to video tape with no loss of quality**
- **Dubs tapes to and from other DV products, including GY-DV500E**
- **Both Y/C and component video out**
- **Controllable with standard edit controllers via either RS-422 or optional RS-232C connectors, or proprietary 12-pin JVC interface**
- **Super Scene Finder lets users log scenes, and mark which scenes are good**




| GENERAL | |
|---|---|
| Power requirements: | AC 220 - 240 V, 50/60 Hz, DC 12 V (11 V to 17 V) |
| Power consumption: | Approx. 27 W |
| Dimensions: | 212 (W) x 88 (H) x 324.5 (D) mm |
| Weight: | Approx. 4 kg |
| Temperature | Operating: 5°C to 40°C<br>Storage: -20°C to 60°C |
| Humidity | Operating: 30% to 80% RH<br>Storage: 85% RH or less |
| Format: | DV format |
| Signal format: | PAL |
| Usable tape: | MiniDV tape |
| Tape width: | 6.35 mm |
| Tape speed: | 18.831 mm/sec. (SP mode) |
| Record/play time: | 80 minutes (with an MDV-80 tape) |
| FF/rewind time: | Within 120 sec. (with an MDV-60 tape) |
| **VIDEO** | |
| Video signal recording format: | 8-bit, 13.5 MHz, 4:2:0 component recording |
| Sampling frequency: | Y: 13.5 MHz, R-Y/B-Y: 6.75 MHz |
| S/N: | 47 dB or more |
| Video inputs | |
| Analogue composite: | 1.0 Vp-p, 75 ohms |
| Analogue Y/C: | Y: 1.0 Vp-p, 75 ohms<br>C: 0.3 Vp-p, 75 ohms |
| Analogue component: | Y: 1.0 Vp-p, 75 ohms<br>R-Y/B-Y: 0.7 Vp-p, 75 ohms |
| External sync input: | 0.3 Vp-p, 75 ohms |
| Video output | |
| Analogue composite: | 1.0 Vp-p, 75 ohms |
| Analogue | Y/C: Y: 1.0 Vp-p, 75 ohms<br>C: 0.3 Vp-p, 75 ohms |
| Analogue component: | Y: 1.0 Vp-p, 75 ohms<br>R-Y/B-Y: 0.7 Vp-p, 75 ohms |

| AUDIO | |
|---|---|
| Audio signal recording format: | 16-bit, 48 kHz for four channels or 12-bit, 32 kHz PCM for 2 channels |
| Frequency response: | 20 Hz to 20 kHz, +1.0/-5 dB (16 bits) |
| Dynamic range: | 85 dB or more (PCM audio) |
| Audio input | Line: -6 dBs, high impedance, unbalanced<br>Mic: -67 dBs, 600 ohms, unbalanced |
| Audio output | Line: -6 dBs, low impedance, unbalanced<br>Monitor: -6 dBs, low impedance, unbalanced<br>Headphone: - infinity to -17 dBs, 8 ohms |
| **TIME CODE** | |
| Output: | 0 ± 3 dBs, low impedance, balanced |
| **CONNECTORS** | |
| IEEE 1394 interface: | 4-pin |
| RS-422 interface: | D-sub 9-pin |
| JVC bus connector: | DIN 12-pin |
| Included accessories | Instruction manual x 1<br>AC cable x 1 |
| Options | RM-G30U remote control unit<br>SA-K46U RS-232C interface board |

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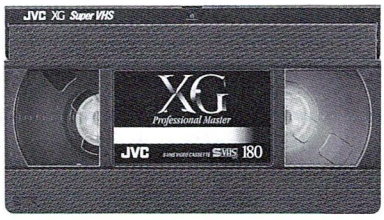
# Dual Format DV/S-VHS VTRs

## SR-VS20E



- **Easy PC connectivity and non-linear editing compatibility (MiniDV/S-VHS/VHS<->PC) simplifies getting your video footage to your PC for non-linear editing (NLE), and once you're done editing, getting the final result back to video, whether MiniDV or Super VHS/VHS, is equally easy. i.Link (IEEE 1394 compliant) connectivity and tested compatibility with many major NLE systems will put your editing suite into the digital age.**
- **MiniDV format allows "off-air" broadcasts to be recorded without loss of quality and to be played back without the need to connect additional cables. Using the LP mode, it's possible to record 120 minutes per MDV-80ME cassette.**
- **PCM digital audio with a choice of 2 modes — 2-channel (16-bit linear, 48 kHz) and 4-channel (12-bit non-linear, 32 kHz) to allow stereo audio dubbing.**
- **High-resolution Super VHS images of more than 400 lines of horizontal resolution (60% more than conventional video). Super VHS allows recording and playback of conventional VHS as well, giving you the choice of dubbing from DV to S-VHS for maximum quality, or from DV to VHS for wider distribution.**
- **DigiPure technology reproducing vivid colours most realistically, and offering crisp rendition of image contours**
- **Hi-Fi VHS stereo**
- **"EasyEdit" with random assemble editing (MiniDV -> S-VHS/VHS)**
- **One-touch dubbing (MiniDV <-> S-VHS/VHS)**
- **DV insert editing and stereo audio dubbing (32 kHz mode)**
- **S-VHS/VHS insert editing with flying erase head, audio dubbing**
- **Multi-brand TV/satellite compatible LCD remote control**
- **DV input/output (i.Link, IEEE 1394 compliant)**
- **The included 21-pin SCART cable enables conversion from a 21-pin connector to an RCA connector, as well as a BNC adapter allow you to easily incorporate this VCR in a variety of editing systems.**



| | |
|---|---|
| Format | DV (SD specifications)<br>S-VHS/VHS PAL standard with Hi-Fi audio |
| Power requirements | AC 220 – 240 V, 50/60 Hz |
| Max. recording time | (DV)80 min. (SP), 120 min. (LP) with MDV-80ME cassette<br>(S-VHS/VHS) 240 min. (SP), 480 min. (LP) with E-240 cassette |
| Channel coverage | (VHF) 47 – 89 / 104 – 300 / 302 – 470 MHz<br>(UHF) 470 – 862 MHz |
| Dimensions (WHD) | 435 x 124 x 391 mm |
| Weight | 7.2 kg |

**INPUTS/OUTPUTS**

| | |
|---|---|
| 21-pin SCART connectors | IN/OUT x 1, IN/DECODER x 1 |
| RCA connectors | VIDEO IN x 1, AUDIO IN x 1, AUDIO OUT x 1 |
| S-video connectors | IN x 1, OUT x 1 |
| DV connector | IN/OUT x 1<br>(4-pin, IEEE 1394 conformity, digital input/output) |
| Others | Remote pause x 1<br>Satellite control x 1<br>ANT. IN x 1<br>RF OUT x 1 |

**ACCESSORIES**

SCART RCA in/out conversion cable, RCA/BNC adapter x 2, RF cable, infrared LCD remote control unit,"AA" (E version)/"R-6" (EK version) battery x 2,cable mouse

* ShowView is a registered trademark of Gemstar Development Corporation. The ShowView system is manufactured under license from Gemstar Development Corporation.
* Video Plus+ and PlusCode are trademarks of Gemstar Development Corporation. The Video Plus+ is manufactured under license from Gemstar Development Corporation.



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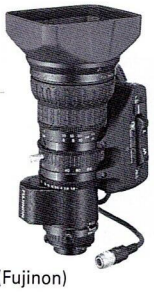
**S14 × 7.3B12U**
14:1 Power Zoom Lens
for GY-DV500E/GY-DV550E

(Fujinon)

**A19 × 8.7BWU**
19:1 Power Zoom Lens
16:9/4:3 switchable for GY-DV700WE



(Fujinon)

**YH14 × 7.3KRS**
14:1 Power Zoom Lens
for GY-DV500E/GY-DV550E

(Canon)

**YJ18 × 6.7K12U**
18:1 Power Zoom Lens
for GY-DV700WE

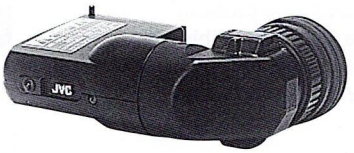
(Canon)

**HZ-ZS13BU**
Zoom Servo/Record
Trigger Control Unit

**HZ-FM13U**
Focus Manual Control
for Fujinon Lens
(excluding S14 lens)

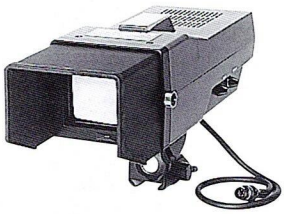
**HZ-FM15U**
Focus Manual Control
for Canon Lens

**VF-P115BE**
1.5" Viewfinder
for GY-DV500E/GY-DV550E

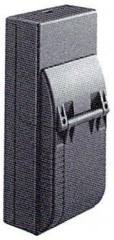


**VF-P116E/VF-P116WE**
Heavy Duty 1.5" Viewfinder
for GY-DV500E/GY-DV550E/
GY-DV700WE

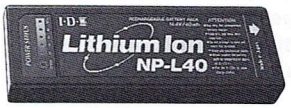
**VF-P400E/KA-A40**
4" Viewfinder/Viewfinder
adapter(required)



**BH-P27U**
Battery Holder for
NB-G1U or NP-1



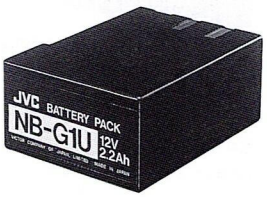
**NP-1 Type Battery**
User supplied battery
(Battery holder provided)




**AA-P250E**
AC Power Adapter/
(Charger for NB-GIU)

**AA-G10E**
Battery Charger for
NB-G1U
AC Power Adapter

**NB-G1U**
Ni-Cd Battery (2.2Ah)




**VC-P893U**
RC-232C PC
Interface Cable

**VC-P894U**
RC-232C Mac
Interface Cable

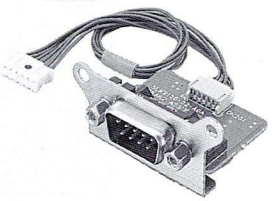
**RM-LP55U**
Camera
Remote
Control
Unit
for GY-
DV550E

**MV-P615U**
Monaural
Microphone

**KA-A50**
Mic Holder

**RM-G30U**
BR-DV600 VTR
Remote Control

**SA-K46U**
BR-DV600
RS-232C
Interface
Board



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# MDV-63 PRO/MDV-30 MEAE/MDV-60 MEAE/ MDV-12CL

Mini DV PAL



## JVC Professional DV tape

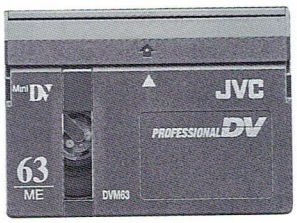
- **The MDV-63 Pro tape uses a new manufacturing process that reduces the error rate to 50% less than conventional models. This makes it possible to minimise the possibility of block noise in the picture.**
- **An oxygen supply system developed by JVC increases the output level high frequency mode by 20% over the conventional mode.The result is more detailed,higher quality pictures with improved durability and stability in both SP and LP recording and playback.**

## JVC MiniDV tape line common features

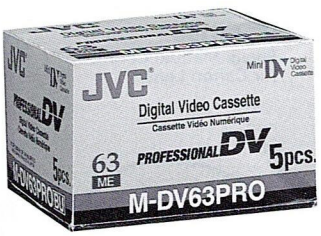
- **The adoption of LAC (Lubricant Adsorption Control) technology and advanced DLC (Diamond-Link Carbon) ensures much greater durability in the Still mode. This also extends the overall lifetime of recordings and allows tapes to be used repeatedly with minimal deterioration.**
- **ME tape technology-The all-important magnetic layer of the tape is produced by depositing ultra-fine particles of 100% cobalt on a substrate using the latest ME technology.This results in a high packing density which in turn raises output and reduces noise throughout the spectrum. Both picture and sound quality benefit.**
- **Special surface treatment-An additional fluoride-based lubricating layer gives the tape a flat, smooth surface with a low coefficient of friction.This ensures stable tape transport characteristics and reliable performance, even after repeated re-recording and playback.**
- **Ultra-compact dustproof shell-A sturdy 3-piece lid, constructed from antistatic materials, stops dust and other contaminants from entering the cassette-which also features a reel lock to prevent tape slack, and an erasure prevention mechanism.**

| PHYSICAL PROPERTIES | |
|---|---|
| Tape width | 6.35 mm |
| Tape thickness | 7 μm |
| Transmissivity | Less than 5% |
| **MAGNETIC PROPERTIES** | |
| Coercivity | 120 KA/m |
| Saturation density | 550 mT |
| Squareness ratio | 0.8 |
| **ELECTROMAGNETIC EXCHANGE PROPERTIES** | |
| Optimum recording current | |
| Data signal | 0 dB |
| Output (21 MHz) | More than -1 dB |
| Frequency response (10/21 MHz) | Within ±2 dB |
| Overwrite property (10.5/21 MHz) | Within ±2 dB |
| C/N (10.5/21 MHz) | More than -2 dB |
| Tracking signal | |
| Output (0.47 MHz) | 0 dB |
| Overwrite property (0.47/21 MHz) | More than +1 dB |
| Impulse signal (1/90 Tb) | Within ±5% |

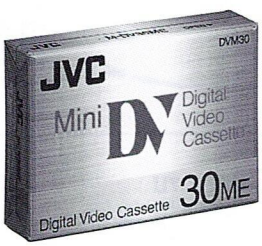
***Deviation from JVC reference DVC tape at 0 dB**




**Mini DV tape**

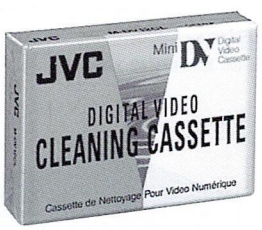



**MDV-63PRO**



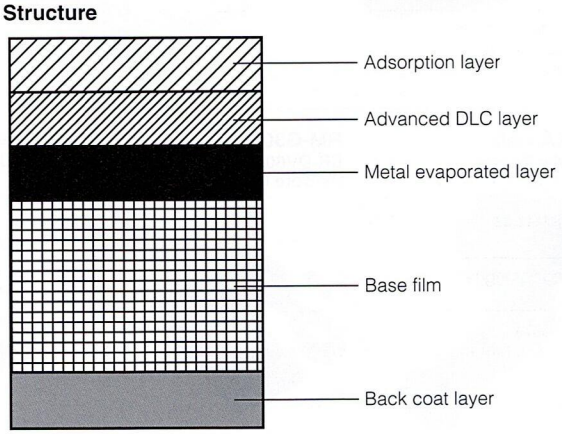

**MDV-30 MEAE**
30 minute tape

**MDV-60 MEAE**
60 minute tape




**MDV-12CL**
DV Cleaning tape

**Structure**



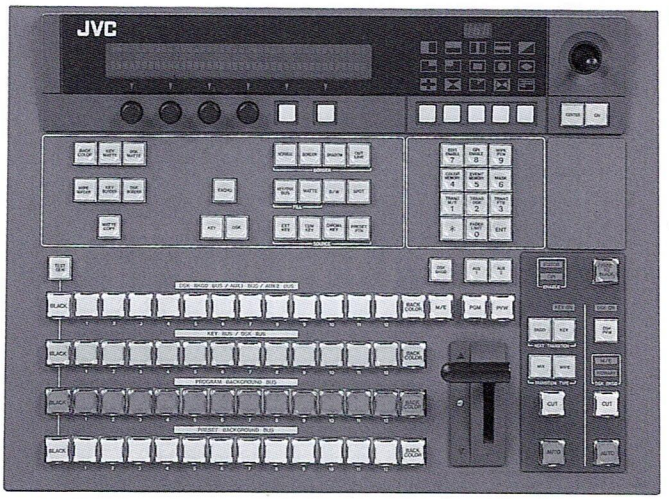
# Multi-format Component Digital Vision Mixer

# KM-5000E

COMPONENT DIGITAL 4:2:2



- **Exceptional picture quality from component digital processing (CCIR Rec 601 4:2:2 digital format)**
- **Four different input modules available for various applications: component analogue, component parallel digital (Rec 656), component serial digital (Rec 656), and composite analogue (PAL)**
- **Up to 14 primary inputs are possible, including colour bar and back colour (input modules optional)**
- **Up to 7 busses (KEY, PGM, PST, DSK, DSK BKGD, AUX1, AUX2) (AUX1 AND AUX2 Optional)**
- **Three slots for PGM output**
- **16-event memory**
- **Serial interface for VTR editors (RS-422A)**
- **2-unit modular design: main unit and control unit**
- **6 colour matte generators**
- **DVE interface possible**
- **Liner key processing**
- **All input chroma key for KEY and DSK (Standard)**
- **Priority change capability between KEY and DSK**
- **Border generator : Border, Shadow, Outline for KEY and DSK (Standard)**
- **Auto Digital Input phase correction (±64 μS)**




## VIDEO SYSTEM

| | |
|---|---|
| Television standard | 625/50 |
| Digital video paths | 8-bit resolution |
| Digital key paths | 8-bit resolution |
| Digital mixer: | 10-bit × 9-bit mixer with 18-bit precision: dither added to round to 8-bit out |
| Overall delay input/ programme output | 3 line <delay <4 line |
| Signal processing video | 4:2:2 in conformity with CCIR601 |

## INPUTS

12 primary video inputs

| | |
|---|---|
| Analogue component (option): | EBU standard level<br>Y :1.0 Vp-p<br>Pb: 0.7 Vp-p<br>Pr :0.7 Vp-p<br>3 × BNC 75 ohms |
| Parallel digital (option): | CCIR-656 parallel component<br>1 × D-sub 25-pin |
| Serial digital (option): | CCIR-656 serial component<br>1 × BNC 75 ohms |
| Analogue composite (option): | PAL-VBS 1.0 Vp-p<br>1 × BNC 75 ohms |

6 external key inputs

| | |
|---|---|
| Analogue key (option): | VS 1 Vp-p or key 0.7 Vp-p and sync 0.3~4.0 Vp-p<br><br>(switchable)<br>2 × BNC 75 ohms |
| Parallel digital (option): | CCIR-656 parallel component<br>1 × D-sub 25-pin |
| Serial digital (option): | CCIR-656 serial component<br>1 × BNC 75 ohms |

| | |
|---|---|
| Autophasing range: | +62.5 μs (delay)<br>–64.0 μs (advance) |

Gen-lock

| | |
|---|---|
| Composite analogue: | B.B. 0.45 Vp-p±30%<br>75 ohms or loop through<br>2 × BNC |

## OUTPUTS

Programme output (3 slots available for PGM)
Preview output (1 slot available for PVW)

| | |
|---|---|
| Analogue component (standard): | EBU standard level<br>Y 1.0 Vp-p<br>Pb 0.7 Vp-p<br>Pr 0.7 Vp-p level<br>2 outputs per 1 module<br>6 × BNC 75 ohms |
| Serial digital (standard): | CCIR-656 serial component<br>3 outputs per 1 module<br><br>3 × BNC 75ohms |
| Parallel digital (option): component | CCIR-656 parallel<br>2 outputs per 1 module<br>2 × D-sub 25-pin |
| Analogue composite (standard): | VBS 1.0 Vp-p<br>2 outputs per 1 module<br>2 × BNC 75 ohms |

Key output (1 slot available)

| | |
|---|---|
| Analogue (option): | Y 1.0 Vp-p<br>1 × BNC 75 ohms |
| Serial digital (option): component | CCIR-656 serial compo-<br>3 × BNC 75 ohms |
| Parallel digital (option): component | CCIR-656 parallel<br>2 × D-sub 25-pin |

Aux-1,-2 outputs(each 1 slot available)

| | |
|---|---|
| Analogue component (option): | EBU standard level<br>Y: 1.0 Vp-p<br>Pb: 0.7 Vp-p<br>Pr: 0.7 Vp-p<br>2 outputs per 1 module<br>6 × BNC 75 ohms |
| Serial digital (option): component | CCIR-656 serial compo-<br>3 outputs per 1 module<br>3 × BNC 75 ohms |
| Parallel digital (option): | CCIR-656 parallel component<br>2 outputs per 1 module<br>2 × D-sub 25-pin |
| Analogue composite (option): | VBS 1.0 Vp-p<br>2 outputs per 1 module<br>2 × BNC 75 ohms |

| | |
|---|---|
| Black burst | 0.45 Vp-p BNC 75 ohms |

## INTERFACE

| | |
|---|---|
| 12 tally outputs | dry contact or voltage supply (selectable) terminal |
| 4 GPI inputs | input:TTL with optocoupler control for M/E, DSK, FTB, KEY, PRIORITY EXCHANGE |

4 Serial communication ports

| | |
|---|---|
| Control unit: | RS-422 or RS-232C D-sub 9-pin |
| Editor: | RS-422 or RS-232C D-sub 9-pin |
| Audio: | RS-422 or RS-232C D-sub 9-pin |
| External: | RS-422 or RS-232C D-sub 9-pin |

## ANALOGUE COMPONENT INPUTS/OUTPUTS

| | |
|---|---|
| Frequency response | Y:100 kHz to 5.75 MHz ±0.5 dB<br>Pb/Pr. 100 kHz to 2.75 MHz ±0.5 dB |
| S/N (p-p/ma) | Y:56 dB (200 kHz to 5 MHz) |
| Y/Pb/Pr timing | less than 25 ns |

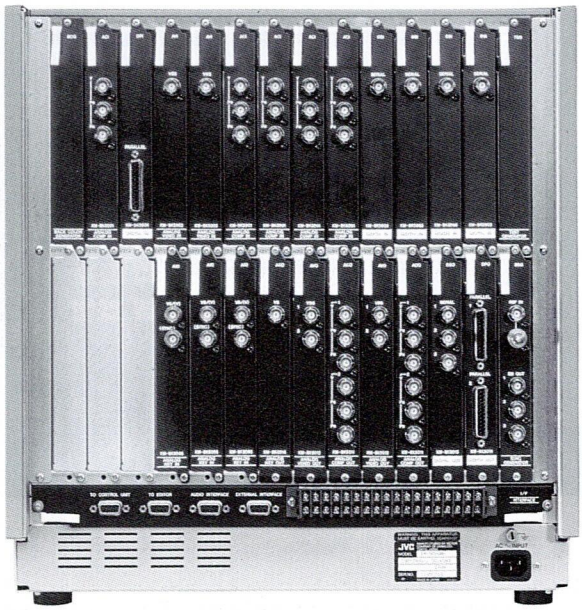
## GENERAL

| | |
|---|---|
| Power requirement: | |
| Main unit | 200 V to 240 V AC±10%<br>50/60 Hz |
| Control unit | 100 V to 240 V AC±10%<br>50/60 Hz |
| Power consumption: | |
| Main unit | max. 220 W |
| Control unit | max. 30 W |
| Operating temperature | 5°C to 40°C |
| Humidity (relative): | 10% to 90% (noncondensing) |
| Weight | |
| Main unit | 30.0 kg |
| Control unit | 7.3 kg |
| Dimension (W × H × D) | |
| Main unit | 482 × 456.5 × 563 mm |
| Control unit | 482 × 83 × 355 mm |

# KM-5000E

COMPONENT DIGITAL 4:2:2



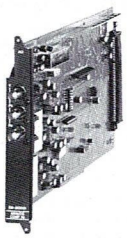


The KM-5000E mainframe is equipped as standard with 3 output modules, KM-BK5011E (analogue component output), KM-BK5012E (analogue composite output) and the KM-BK5013E (digital serial output). Also included are, 6 colour generators, 1 black/test pattern generator, 1 back colour generator and a sync generator. Any of the optional modules can be installed in the mainframe. The mix and number of these modules can vary according to your requirements.

The mixer has a maximum capacity of the following slots:
12 inputs,
6 key in,
3 programme out,
1 preview out,
2 auxiliary out,
1 key out.

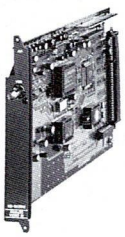
**KM-BK5001**

Analogue component input module



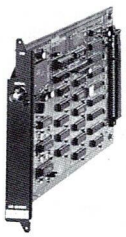
**KM-BK5002**

Analogue composite input module



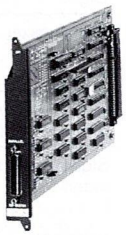
**KM-BK5003**

Digital serial input module



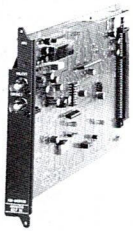
**KM-BK5004**

Digital parallel input module



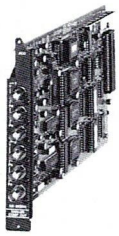
**KM-BK5005**

Analogue key input module



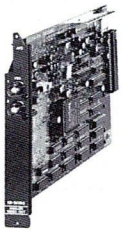
**KM-BK5011**

Analogue component output module



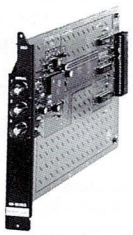
**KM-BK5012**

Analogue composite output module



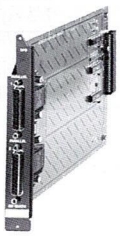
**KM-BK5013**

Digital serial output module



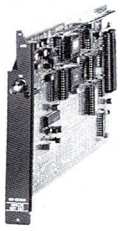
**KM-BK5014**

Digital parallel output module



**KM-BK5015**

Analogue key output module





All model numbers, specifications and prices are subject to change without notice.

# Non-Linear Editing System

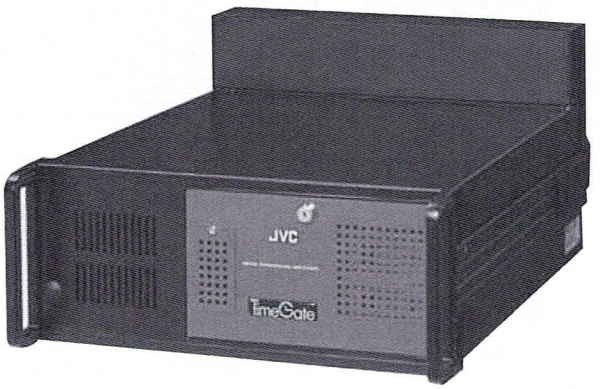
TimeGate

# MW-S1200E

COMPONENT DIGITAL 4:2:2



- All-in-one hybrid 4:2:2:4 non-linear editing machine provides users with streamlined and customisable operations.
- The TimeGate MW-S1200E running under Windows NT, is capable of dual Pentium||| Processors, and is standard with 128 Mb of system RAM that provides dual video streams running at 40 Megabytes per second. An external expansion drive array can be added to boost total media capacity to 15 drives.
- All video input and output carried by standardised Movie II bus that supports up to 8 fully independent 270 Mb/s video streams simultaneously with Four channels of uncompressed audio.
- Live multi-layering capabilities allows the system to combine a background, two video streams that may contain 2D or 3D effects, or standard wipe patterns, and a graphic channel, down to one layer that is recorded on the media array. The new recording becomes a single video stream to be combined to yet another video stream. 2D, 3D effects and graphics make up a second, third, tenth and twentieth layer. This multi-layering process may be repeated until the desired edit is achieved. No rendering is involved in this process.
- The MW-S1200E offers editors real-time-slow-motion in forward and reverse play. Two streams of slow-motion video, one running forward and the other running backward at different speeds from 0 to greater than 500 times normal play can be achieved. Fit and Fill is also supported.
- There are high-quality, all real-time 4:2:2:4 digital 2D and 3D effects such as page turns, spheres, key frame moves, chroma keys and luminance keys as well as real-time graphics, including perspective, skew, size, rotation, axis trail, de-focus and more. All these effects can be further customized by the user and stored by name. Each customized effect can be key framed and placed on the timeline.
- A customisable user tool bar and shortcut keys offers editors more streamlined ways to work.
- There is real-time audio and video scrubbing and a waveform monitor/vectorscope. Real-time audio scrubbing is smooth enough to locate syllables or distinct sounds in an audio track. Video scrubbing allows the user to smoothly move between video frames without seeing jerky motions in the video.
- It is designed to work in tandem with JVC's D-9 format but is equally compatible with other popular analogue and digital tape formats. It can be configured from input to output with all serial, digital, analogue component, Y/C or composite video paths.
- The MW-S1200E has a 270 Mb/s video data bus that can support up to 8 simultaneous video channels and 4:2:2:4 processing of all 2D video effects. Its high-performance specs provide dual stream video in and out, Compression ratios from lossless to 30:1 can be selected, and any combination can be mixed on the timeline.
- The non-linear editor is capable of rolling a separate source VTR to allow instant insertion of scenes directly into the record master. This eliminates the need to batch digitize whenever HDD storage is full, or for just eliminating digitising when possible to gain extra speed in producing the final master tape. Source VTR video and timeline video mixing will be offered in a future release.
- The MW-S1200E houses computer, all video, audio, codec, hard disk array and connectors on the I/O Box. Networking is easily accomplished by adding the appropriate Ethernet or fiber channel interface cards, with room to spare for other application cards.




- The MW-S1200E can be offered as a turnkey package complete with speakers, monitors, cables and popular JVC VTRs. This single chassis construction allows for fast and easy installation, set-up and routine maintenance.

## Quick feature overview

- Superior online picture quality ensured by 4:2:2:4 component digital processing
- 8 different compression rates ranging from "Lossless" to 30:1
- M-JPEG compression system
- Typeset-quality graphics with Title Motion.
- Optional SDI input/output (SMPTE 259M) available to facilitate digital transfer of video to and from JVC's D-9 (DIGITAL S) format
- Real-time high-quality video editing
- Real-time effects processing
- 4 independent 4:2:2 2D DVE video channels (an optional 3D DVE is also available); 2 video channels, a graphics channel, and a background channel
- 48 kHz, 16-bit audio channels with analogue or digital I/O
- VTR to VTR and Disk to VTR editing
- EDL import/export
- Open Architecture conforming to industry standards for rapid modular upgrade of both hardware and software. (OS: Windows NT 4.0; Buses: PCI and Matrox Movie 2; Microsoft Direct Show; Open DML consortium extended AVI video and audio stream files).

## THIRD PARTY SOFTWARE TESTED BY JVC

- 3D Graphics/animation - Kinetix 3D studio MAX, Meta Creations Ray dream 3D studio
- Paint - Meta Creations Painter, Corel Photo Paint
- Photo retouch - Adobe Photoshop, Corel Photo Paint
- Drawing - Adobe Illustrator; Video Effects - Adobe After Effects, Artel Boris AE for After Effects
- Video Keying - Ultimate for After Effects; Motion/3D effects for CG - Inscribe plug-in software
- Sound effects - MIDI Classics Wave lab, Sonic Foundry Sound Forge (EDL management/conversion - Software Grille Pre! Reader
- HDD defragmentation - Executive Software Diskeeper (Adobe, After Effects, Photoshop and Illustrator are trademarks of Adobe Systems Incorporated. All other trademarks are the property of their respective owners.)

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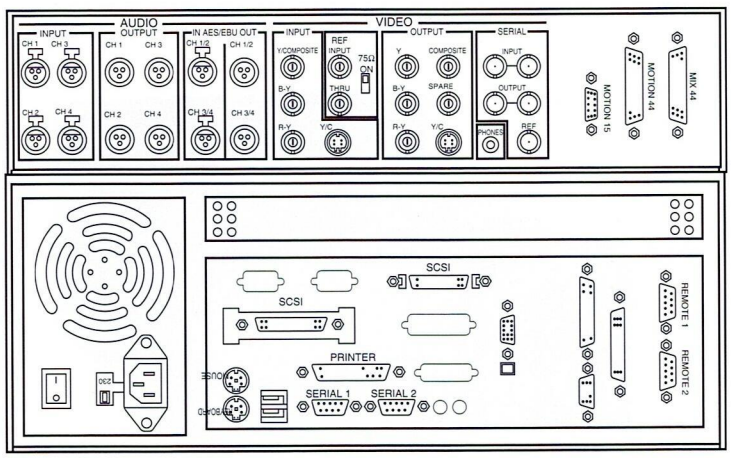
# Non-Linear Editing System

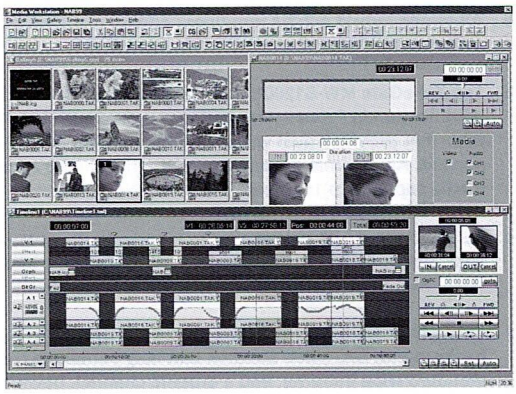
TimeGate

# MW-S1200E

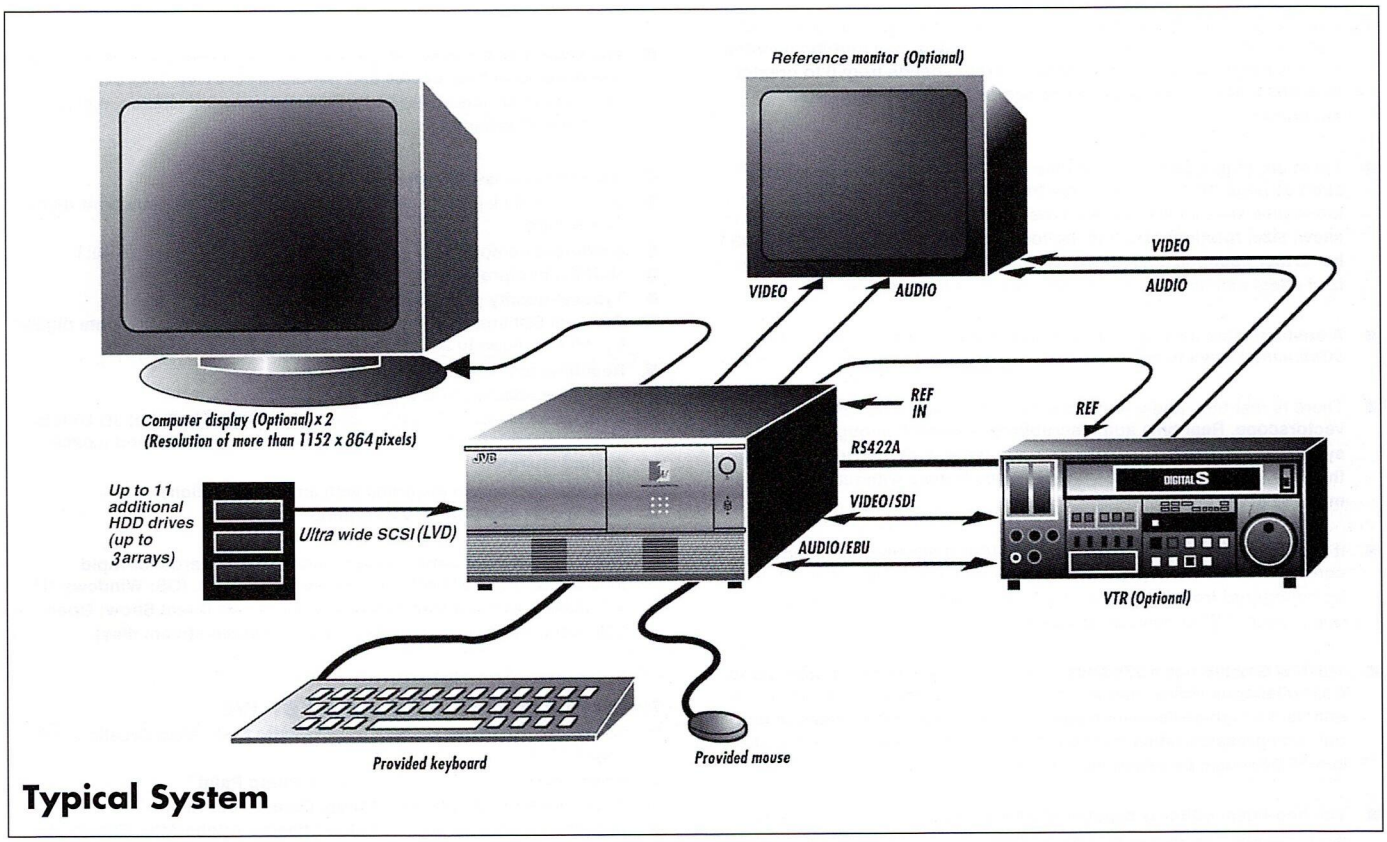
COMPONENT DIGITAL 4:2:2



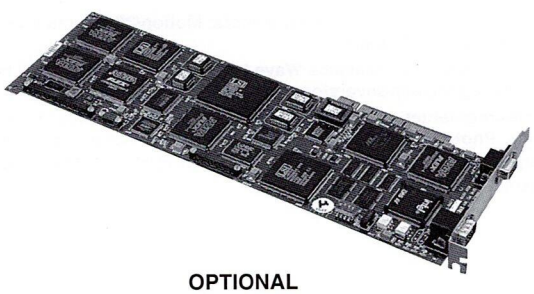

Rear Panel



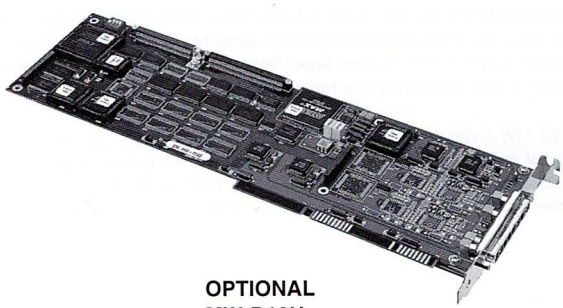
Typical Edit Screen




## Typical System



OPTIONAL
MW-D30U
3D DVE Board



OPTIONAL
MW-D10U
SDI Input / Output Board

All model numbers, specifications and prices are subject to change without notice.

# Non-Linear Editing System

TimeGate

# MW-S1200E

COMPONENT DIGITAL 4:2:2



| | |
|---|---|
| **General** | |
| Standards supported: | PAL, ITU-R 601 |
| Output quality: | Offline, online (D-9) |
| Type of recording: | M-JPEG, 30:1 to 4:1 for A/B roll, 2:1 for cuts only |
| **Editing media** | |
| Standard: | One internal array of 2 x 9 GB or 2 x 18 GB |
| Optional: | 4 external arrays from an approved list |
| Total drives: | 15 drives. |
| Tape formats supported for hybrid operation: | Any which can be controlled by RS-422 using JVC/Sony protocols. |
| **Recording time per media** | |
| Recording time per GB at highest quality: | 3.3 minutes (D-9 quality) |
| Recording time per GB at standard quality: | 7 minutes (better than S-VHS quality) |
| Recording time per GB at lowest quality: | 25 minutes (off-line quality) |
| **Hardware desktop system:** | Windows NT 4.0, Dual Pentium III Capable. Processing / storage hardware |
| Optional hardware: | Genie 3D DVE, Digilinx SMPTE 259M SDI I/O |
| **Standard Software:** | Proprietary Media Workstation NLE Software, third party Active Movie. |
| Optional software supported: | Third party PhotoShop, and any third party software approved by JVC |
| **Operation/display** | |
| User interface: | One video monitor, one 20" computer display (864 x 1152 or above ), keyboard and mouse. |
| Clip Search: | Searched/sorted by reel number and timecode, file name, date, and file extension (.tml, .wav, .tak, tga, etc.), All clips are available to all projects. |
| Keyboard shortcuts: | Supported |
| Screen layout: | Customised by scaling window sizes and having multiple windows open such as galleries and timelines. |
| Display for stored/library clips: | Icons |
| Primary display for program assembly: | Storyboard, timeline |
| Sizes of picture display: | Full screen |
| Tmings displayed: | HMSF, absolute time |
| **Synchronization / machine control:** | Two external machines for recording or insert editing via RS-422 and Re-recording at a higher resolution using internal EDL supported. The system internally regenerates broken timecode. |
| Timecode formats supported: | LTC, VITC, drop frame, non drop frame |
| Rates used for synchronization (fps): | 25 |
| **Input/output** | |
| Picture Recording: | Batch recording with user definable handles is supported, depending on drive capacity and the third party software used. |
| Analogue inputs: | [standard] 1 x Y/C, 1 x composite 1 x R-Y, Y, B-Y |
| Digital inputs: | [optional] SMPTE 259M |
| Frames recorded: | Every frame |
| Fieldes per frame: | Two |
| No. of pixels: | 720 x 576 |
| Motion control: | Joy stick, locate to marker, goto any time, random access on timeline |
| Analogue outputs: | [standard] 1 x Y/C, 1 x composite 1 x R-Y, Y, B-Y |
| Digital outputs: | [optional] 1 x SMPTE 259M |
| No. of simultaneous replay channels: | Two |
| Timecode output (fps) : | 25 |
| **Effects** | |
| Basic transition types: | Approximately 100 including fades, dissolves, simple wipes, matrix wipes, clock wipes |
| Transition are real time, customised by: | Transition time, border width/colour/softness, DVE location/aspect ratio, and page turn direction/ |
| radius/number of | corners. |
| DVE types: | [standard] linear keys, chroma keys, approximately 20 2D DVEs including slide, zoom and mosaic, [optional] 3D DVEs including page turn, rotation, splash, sphere |
| Graphics/Titles: | [standard] Title Motion (with .icg file format) |
| Layers of effects/graphics: | Two video, one graphic and one background layer |
| Customised effects | Support 3D Effect (Rotate, Axis, Perspective, Skew Shape, Defocus, Trail)<br>Change key frame by drag & drop<br>Cut, Copy and Paste for KEYFRAME on the Edit line<br>Reverse top and tail<br>Add short cut key<br>Real time colour change by new colour dialogue<br>Support constant aspect ratio when compressing video |
| Special editing/effects features include: | Colour compensation including chroma gain, video gain and video setup. |
| DVE system: | Provided by Pinnacle hardware and are real time. |
| Graphics/title system: | Provided by Title Motion third party software, uncompressed. |

All model numbers, specifications and prices are subject to change without notice.

JVC PROFESSIONAL

# Non-Linear Editing System

TimeGate

# MW-S1200E

COMPONENT DIGITAL 4:2:2



| | |
|---|---|
| **Editing:** | There are 32 stages of undo; edits can be made between mixed picture resolutions. |
| Editing types: | Cut, insert, insert black copy, assemble, tag edit |
| Edit window | Display audio wave form<br>GOTO function<br>Slider bar for search<br>PICON is from IN point |
| For tape to tape editing: | Insert to record machine material |
| Edit point marking: | Mark on the fly, enter timecode in stop |
| Shot trimming techniques: | Jogging, trim in and out, drag timeline<br>Multi-layer by internal HDD (approx. 4 times when using 2-video streams) |
| **Timeline control:** | Real time variable speed playback (Slow, Fast, Reverse)<br>Fast seek video and audio<br>Can easily close tape output control panel after timeline output to tape<br>Drag & Drop the selected area from timeline to gallery<br>GOTO original time code<br>Set Audio Level for whole length of timeline |
| **Audio** | |
| Sampling rates (kHz): | 48 |
| Analogue inputs: | [standard] 4 ch +4 dBs, 20 kohms. |
| Anaolgue outputs: | [standard] 4 ch +4 dBs, 50 kohms, phone |
| Digital inputs/outputs: | [standard] 4 ch AES/EBU |
| No. of editing tracks: | 8 |
| No. of simultaneous channels: | [standard] 8 |
| Edit point location techniques: | On the fly, click & drag, waveform |
| Level/mix functions: | Fade in/out, crossfades, track level, clip level, stereo mixdown |
| **Project function:** | Can use previous project parameters as template<br>1) Setup/timeline setup<br>2) Effect parameter (Border Width etc....)<br>3) Customised effect pattern<br>4) Background colour<br>5) Tool Bar<br>Change Window design when opening the project file |
| **EDL/data file management** | |
| Number of EDL events in a programme: | 999 |
| EDLs supported: | Sony BVE 9100 |
| **Media file import/export** | |
| File formats supported are: | |
| Video: | Extended AVI, Standard AVI |
| Audio: | WAVE (48K, 16 bit, mono) |
| Gallery: | Support BMP, PCX file format, with and without Alpha channel<br>- 8, 16, 24, 32 bit graphics<br>PICON preview<br>Can load TEST PATTERNS (add load menu)<br>Add TRIM information on story board |
| **Graphics:** | TGA, BMP(still frames grabbed are TGA files) |
| **Network file operation** | |
| Archiving: | Copy clips from another PC or server using optional Ethernet or fibre channel interface card |
| Recommended archiving devices: | MO and ZIP drives parallel I/F, D-9 |
| Material archived: | Selectable source or program |
| **Configuration** | |
| Standard operational system: | JVC Media Workstation MW-S1200E Desktop unit 2D DVE and Character Generator,<br>keyboard, mouse, 128 MB RAM, 3.5" 1.44 MB floppy disk drive, 32 x CD-ROM Drive, 9 GB system hard drive. |
| Options: | MW-D10 Serial Digital I/O, MW-D30 3D DVE |
| **Dimensions** | |
| Size: | 430 (W) x 264 (H) x 622 (D) mm (16-15/16"x 10-7/16"x 24-1/2") (I/O Box only : 430 (W) x 88 (H) x 70 (D) mm)<br>(16-15/16" x 3-1/2" x 2-13/16") |
| Weight: | 25 kg (55.1 lbs.) |
| Power Consumption: | 1.8 A |
| **Other recommended components** | External HDD array systems,<br>Speaker system,<br>20" computer display (1152 x 864 required),<br>JVC BM-H2000E high resolution 20" video monitor,<br>JVC BR-D860E or BR-D92E D-9 VTR<br>JVC SA-D92 SDI I/O for BR-D92E or BR-D860E |

*"Windows NT 4.0" and "Direct Show" are trademarks of Microsoft
*"Pentium Ⅲ " is a trademark of Intel.



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# Cameras



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# KY-D29WE 16:9/4:3 switchable
# KY-D29E 4:3



- 3D digital noise reduction cancels out random noise, without undesired lag, by comparing multiple frames together with motion detection, Outstanding 63 dB signal to noise ratio.
- 600% dynamic range is achieved for both dark areas and highlights, in part because signals are processed at 14 bit resolution to give essential DSP headroom. Exceptional reproduction of highlight colour is another strength. Multi-stream parallel digital signal processing creates an ultra smooth gamma curve, calculated using a true Log scale algorithm. The new "one touch" Black Stretch/Compress feature gives fast reproduction of shadow areas, or a contrasty look.
- Three 2/3" 980H x 570V pixel IT CCDs (KY-D29WE) and three 2/3" 745H x 581V pixel IT CCDs (KY-D29E) are combined with the JVC ultra fast "take and hold" CCD sampling circuit capable of harvesting the full CCD dynamic range of 600%
- CCD vertical smear level; a super-low 125 dB
- High sensitivity of F11 at 2000 lux gives creative flexibility and ease of lighting.
- Automatic shooting from 4 lux to 17,000 lux thanks to JVC's well known Full auto shooting (FAS) mode with continuous white balance. Super LoLux mode now provides outstanding reproduction down to 0.35 lux. In addition to the standard set-up, two scene files save advanced custom camera set-ups.
- Also: Accu-focus mode, Adjustable Gamma Point, Adjustable Detail Enhancement Frequency, Time/Date Generator, Star Filter, Audio Level Control, Full Time Automatic White Balance, Continuous Auto-Black (CAB) and Smooth Transition mode.
- Builds on the high performance and reliability of the KY-27 series. Most accessories compatible with KY-27 series. Docks with JVC D-9, S-VHS and other industry standard formats.

### Features unique to KY-D29WE and VF-P116WE

- Skin Tone Detail function softens the image of the facial area by sampling an area with the desired skin tone and applying that to the entire face. This digital "make-up" is applied while maintaining the sharpness of other areas.
- A six-axis colour matrix circuit compensates for optics-related colour reproduction. User-adjustable, it adds to the operator's ability to create clear, true-to-life colour tones.
- Auto Viewfinder adjustment displays the selected aspect ratio (16:9 or 4:3)
- Full Mode option displays the image in the entire field of the viewfinder
- Large Tally lamps are easy to see from a wide viewing angle

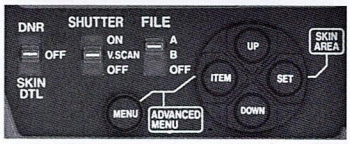
### Features unique to the KY-D29E

- "V-Plus" high vertical resolution mode utilizes 768 x 986 effective pixel 2/3" IT CCDs (760K pixels) with the highest pixel count in the industry. One out of three vertical pixels is integrated from the opposite field to increase vertical resolution without visible lag or sacrificing sensitivity. Horizontal resolution is 850 TV lines

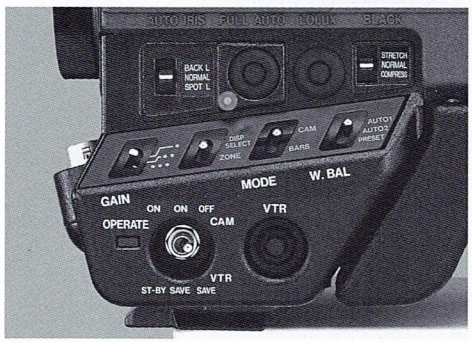
(User-supplied microphone)

Switchable 4x3, 16x9 KY-D29WE

KY-D29E




KY-D29WE



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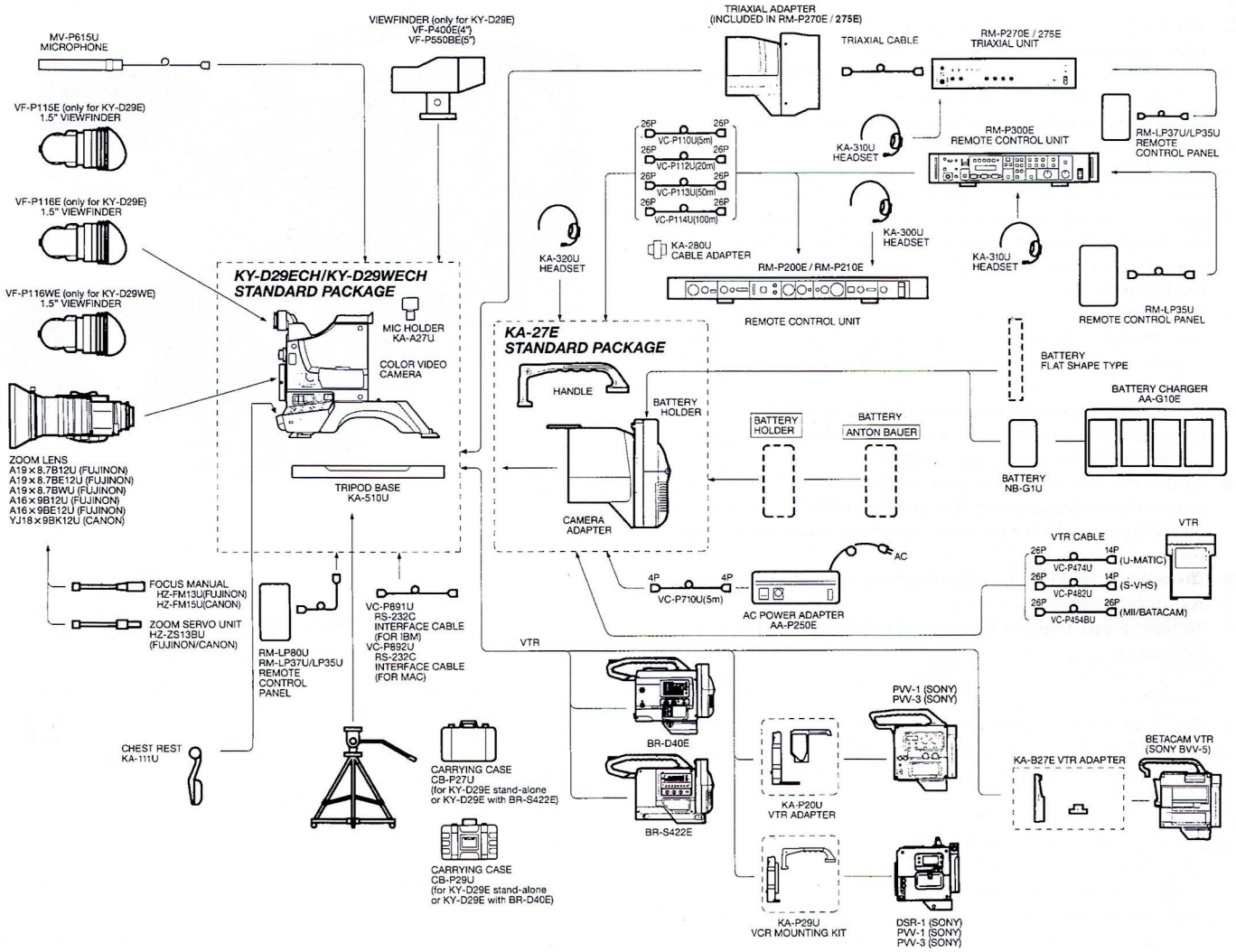
# KY-D29WE/KY-D29E System Configuration






**A19 × 8.7B12U**
19:1 Power Zoom Lens (For KY-D29E and KY-D29WE)

**A19 × 8.7BE12U**
19:1 Power Zoom Lens with × 2Extender (For KY-D29E and KY-D29WE) (Fujinon)

**A19 × 8.7BWU**
19:1 Power Zoom Lens (For KY-D29WE)

**YJ18 × 9BK12U**
18:1 Power Zoom Lens

# KY-19E



- 440,000 pixel 1/2-inch CCDs deliver 750 lines of horizontal resolution for natural, sharp pictures.
- Interline Transfer CCDs with Micro Lens Technology provide:
  - High sensitivity of F8 at 2000 Lux
  - Negligible vertical smear when shooting highlights
- High S/N ratio of 60 dB for quiet pictures.
- New CCD signal process technology in LOLUX mode requires only 2 Lux for shooting in almost total darkness.
- Full Auto Shooting with manual override provides Auto Iris with Multizone Iris Weighting, Enhanced Variable Gain (ALC: Automatic Level Control), Variable Shutter (EEI: Extended Electronic Iris), and Full Time Auto White.
- Innovative Multizone Iris Weighting system and Automatic Peak/Average Balance Detection (APB) enhance accuracy of auto iris
- Universal dockability. Dockable directly with D-9 and Professional S-VHS. Adapters allow docking with MII, Hi8, Professional Betacam® and Broadcast Betacam®.
- Viewfinder Status System incorporated in large 1.5-inch viewfinder displays audio levels, accumulated and remaining recording time, VTR operation, battery voltage, and camera set-up
- The KY-19E features a colour matrix circuit to assure accurate colour reproduction.
- Variable Scan ensures flicker-free shooting of CRTs

* BETACAM ® is a registered trademark of Sony Corporation.

**KY-19E**
**(With optional accessories)**



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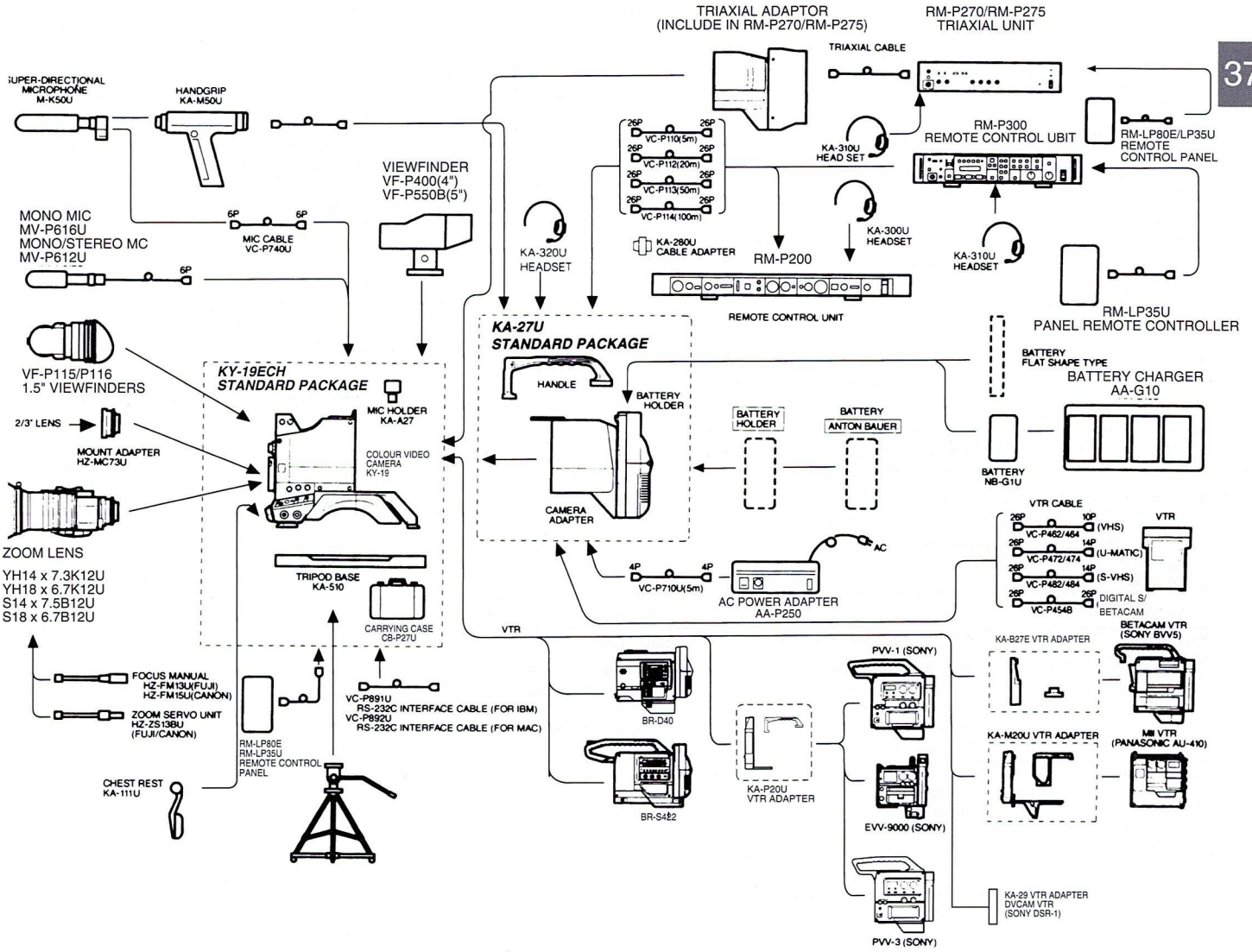
# KY-19E System Configuration






**S14 × 7.5B12U**
14:1 Power Zoom Lens

(Fujinon)

**S19× 6.5B12U**
19:1 Power Zoom Lens

(Fujinon)

**YH14 × 7.3K12U**
14:1 Power Zoom Lens

(Canon)

**YH18 × 6.7K12U**
19:1 Power Zoom Lens

(Canon)

All model numbers, specifications and prices are subject to change without notice.

# Professional Camera Specifications



| | KY-D29E | KY-D29WE | KY-19E |
|---|---|---|---|
| Optical system | 2/3" F1.4 RGB prism system | 2/3" F1.4 RGB prism system | 1/2" F1.4 RGB prism system |
| Pickup device | 2/3" 3 Interline-transfer CCDs, 3-chip | 2/3" 3 Interline-transfer CCDs, 3-chip | 1/2" Interline-transfer CCDs, 3-chip |
| Picture elements | 754 (H) x 581 (V) | 980 (H) x 570 (V) | 440,000 (effective) 752 (H) x 582 (V) |
| Encoder | DSP | DSP | PAL (R-Y/B-Y system) 1.3 MHz |
| Synchronising system | Internal/External | Internal/External | Internal/External |
| Optical filter | 3200°K, 5600°K<br>5600°K + ND, star filter | ← | 3200°K, 5600°K<br>5600°K +1/16 ND |
| Lens mount | 2/3" bayonet | 2/3" bayonet | 1/2" bayonet |
| Sensitivity | F11, 2000 lux, 0 dB gain | F11, 2000 lux, 0 dB gain | F8, 2000 lux, 0 dB gain |
| Minimum illumination | 0.35 lux F1.4, Super LoLux mode | 0.35 lux F1.4, Super LoLux mode | 7.5 lux (+18 dB, F1.4)<br>2 lux (LoLux mode,<br>F1.4 equivalent to +30 dB gain) |
| S/N | 63 dB (Detail OFF,<br>Gamma 1, Bandwidth<br>4.2 MHz, Matrix OFF, DNR ON) | 63 dB (Detail OFF,<br>Gamma 1, Bandwidth<br>4.2 MHz, Matrix OFF, DNR ON) | 60 dB typical (Detail<br>correction OFF, Gamma 1,<br>Bandwidth 4.2 MHz, Matrix OFF) |
| Vertical resolution | V-Plus: 500 TV lines<br>V-Max: 540 TV lines<br>V-Normal: 450 TV lines | V-Max: 540 TV lines<br>V-Normal: 450 TV lines | 450 TV lines |
| Horizontal resolution | 850 TV lines (Typical) | 700 TV lines (Typical) | 750 TV lines, 540 TV lines (R/G/B) |
| Registration | 0.05% (Without Lens,<br>Distortion, in all areas) | 0.05% (Without Lens,<br>Distortion, in all areas) | 0.05% (Without Lens,<br>Distortion, in all areas) |
| Detail correction | Horizontal: Dual correction<br>with selectable frequency<br>Vertical: 2H | Horizontal: Dual correction<br>with selectable frequency<br>Vertical: 2H | Horizontal: Dual-edged<br>Vertical: 2H |
| Colour bars | EBU Type | EBU Type | EBU Type |
| Gain boost | -3, 0, 6, 9, 12, 18 dB,<br>Selectable by menu,<br>LoLux (33 dB),<br>Super LoLux (39 dB),<br>Variable Gain in ALC | -3, 0, 6, 9, 12, 18 dB,<br>Selectable by menu,<br>LoLux (33 dB),<br>Super LoLux (39 dB),<br>Variable Gain in ALC | 0, 6, 9, 12, 18 dB<br>Variable gain in ALC,<br>LoLux 30 dB gain equivalent |
| Shutter speeds | 1/50, 1/120, 1/250, 1/500,<br>1/1000, 1/2000,<br>Variable shutter in ALC | 1/50, 1/120, 1/250, 1/500,<br>1/1000, 1/2000,<br>Variable shutter in ALC | 1/50, 1/120, 1/250, 1/500,<br>1/1000, 1/2000,<br>Variable shutter in ALC |
| Variable scan | 1/50.4 to approx. 1/2000 sec. | 1/50.1 to approx. 1/2000 sec. | 1/50.1 to 1/2067.8 sec., 350 steps |
| Output signals (KA-27U)<br>Video signals | | | |
| 1.Composite video signal | 1.0 V (p-p), 75 ohms (BNC, 26P) | 1.0 V (p-p), 75 ohms (BNC, 26P) | 1.0 V (p-p), 75 ohms (BNC, 26P) |
| 2.Separate Y/C signal | Y: 1.0 V (p-p), 75 ohms (7P, 26P)<br>C: 0.3 V (p-p), 75 ohms | Y: 1.0 V (p-p), 75 ohms (7P, 26P)<br>C: 0.3 V (p-p), 75 ohms | Y: 1.0 V (p-p)<br>C: 0.3 V (p-p), (Burst), 75 ohms (7P, 26P) |
| 3.Component video signal | Y: 1.0 V (p-p), 75 ohms<br>(26P)/R-Y/B-Y: 0.525 V (p-p), 75 ohms | Y: 1.0 V (p-p), 75 ohms<br>(26P)/R-Y/B-Y: 0.525 V (p-p), 75 ohms | Y: 1.0 V (p-p), 75 ohms<br>R-Y/B-Y: 0.525 V (p-p) or<br>0.7 V (p-p), 75 ohms (26P) |
| 4.R/G/B signal | R/G/B: 0.7 V (p-p), 75 ohms,<br>(26P)(2, 3 or 4 is selectively<br>output from the same 26-pin connector.) | R/G/B: 0.7 V (p-p), 75 ohms,<br>(26P)(2, 3 or 4 is selectively<br>output from the same 26-pin connector.) | R/G/B: 0.7 V (p-p), 75 ohms<br>(26P)(2, 3 or 4 is selectively<br>output from the same 26-pin connector.) |
| Audio signal | -60/-20 dBm selectable<br>600 ohms, balanced | -60/-20 dBm selectable<br>600 ohms, balanced | -60/-20 dBm selectable<br>(Stereo/ Monaural applicable),<br>600 ohms balanced |
| Input signals | | | |
| Return video signal | VBS: 1.0 V (p-p), 75 ohms<br>(26P, 50P docked) | VBS: 1.0 V (p-p), 75 ohms<br>(26P, 50P docked) | VBS: 1.0 V (p-p), 75 ohms<br>(26P, 50P docked) |
| Genlock signal | VBS: 1.0 V (p-p), 75 ohms (BNC, 26P)<br>BB: 0.45 V (p-p), 75 ohms (BNC, 26P) | VBS: 1.0 V (p-p), 75 ohms (BNC, 26P)<br>BB: 0.45 V (p-p), 75 ohms (BNC, 26P) | VBS: 1.0 V (p-p), 75 ohms (BNC, 26P)<br>BB: 0.45 V (p-p), 75 ohms (BNC, 26P) |
| Audio signal | XLR: -60 dBm, balanced,<br>48 V phantom power supply | XLR: -60 dBm, balanced,<br>48 V phantom power supply | Mic level JVC 6P, XLR:<br>JVC 6P: -52 dBm,<br>unbalanced 9 V power, Stereo/Mono<br>XLR: -60 dBm, balanced |
| Power requirements | 12 V DC (Normal),<br>10.5 V to 17 V DC<br>(Permissible battery range) | 12 V DC (Normal),<br>10.5 V to 17 V DC | 12 V DC (Normal),<br>10.5 V to 18 V DC |
| Power consumption | 19 W (with VF-P115E<br>viewfinder, camera head,<br>camera adapter and lens) | 21 W (with VF-P116WE<br>viewfinder, camera head,<br>camera adapter and lens) | 12.6 W with camera adapter and<br>viewfinder 11.9 W with viewfinder<br>only 9.8 W without adapter or viewfinder |
| Ambient temperature | -5°C to +45°C (23°F to 113°F) | -5°C to +45°C (23°F to 113°F) | -10°C to +45°C (14°F to 113°F) |
| Weight | Approx. 2.3 kg (5.1 lbs.)<br>(camera head only) | Approx. 2.3 kg (5.1 lbs.) | 2.0 kg (4.4 lbs.) |

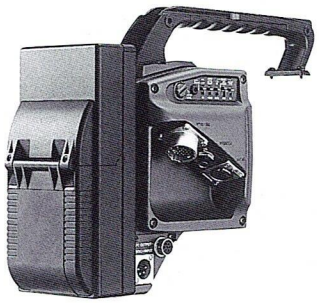


All model numbers, specifications and prices are subject to change without notice.

# Optional Accessories (KY-D29WE/KY-D29E/KY-19E)



**KA-27E**
Camera Adapter

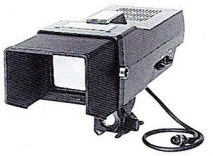


**VF-P116E**
Heavy Duty 1.5" Viewfinder

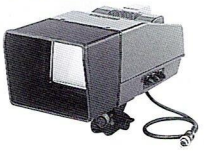
**VF-P116WE**
Heavy Duty 16:9/4:3 1.5" Viewfinder for KY-D29WE

**VF-P115E**
1.5" Viewfinder

**VF-P400E**
4" Viewfinder



**VF-P550BE**
5" Viewfinder
**VF-P550WE**
16:9/4:3 5" Viewfinder for KY-D29WE

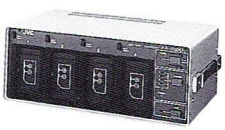


**HZ-ZS13BU**
Zoom Servo Control Unit

**HZ-FM13U**
Focus Manual Control for Fujinon Lens

**HZ-FM15U**
Focus Manual Control for Canon Lens

**AA-G10E**
Battery Charger/ AC Power Adapter



**AA-P250E**
AC Power Adapter/ Charger

**NB-G1E**
Ni-Cd Battery (2.2Ah)

**VC-P110U SERIES**
Remote Cables for RM-P200E and RM-P300E: VC-P110U (5m), VC-P112U (20m), VC-P113U (50m), VC-P114U (100m)

**KA-280U**
Remote Cable Coupler

**VC-P891U**
RS-232C Interface Cable

**VC-P892U** RS-232C
Interface Cable for Macintosh

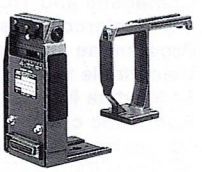
**RM-LP35U**
Remote Control Panel for RM-P300E, RM-P270E, RM-P275E and Camera Head

**RM-LP80U**
Remote Control Panel for RM-P270E and Camera Head

**MV-P612U**
Stereo/Super Directional Microphone (KY-19E, 35E )

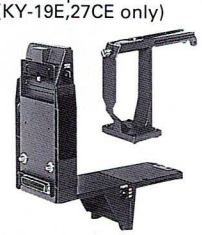
**MV-P615U for XLR**
MV-P616U for 6-pin Microphone (KY-D29E uses XLR and KY-19E uses 6-pin)

**KA-P20U**
PVV-1/EVV-9000 Adapter (KY-19E only)



**KA-B27E**
Betacam Adapter (for BVV-5)

**KA-M20U**
MII Adapter (KY-19E,27CE only)



**CB-P27U**
Carrying Case

**KA-300U/KA-320U**
Intercom Headset for RM-P200E/KA-27E

**KA-310U**
Intercom Headset for RM-P300E/RM-P270E/RM-P275E/ RM-P210E

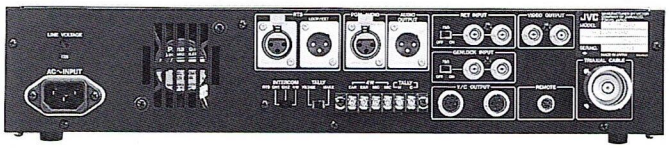
**KA-111U**
Chest Rest

All model numbers, specifications and prices are subject to change without notice.

# Triaxial Remote Camera Control System

## RM-P270E

**RM-P270E**
**(KY-D29E/27CE/19E)**




**RM-P270E Rear**

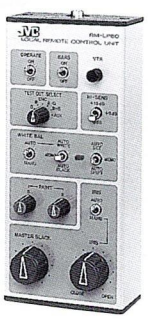
**Triaxial Adapter (Included with RM-P270E)**

- **Composite and Y/C outputs**
- **4-line intercom system (selectable)**
- **Programme audio output monitoring**
- **Extendable to 1,500 m (5,000 ft.)**
- **Serial data link camera control**
- **Automatic camera phase control for genlock circuit**
- **19" rack mountable (2U)**
- **Optional RM-LP35U and RM-LP80E remote operator control panels**

| | | |
|---|---|---|
| **OUTPUT SIGNALS** | | |
| Composite video signal | Y: | 1 Vp-p 75 ohms × 2 |
| Y/C signal | Y:<br>C: | 1 Vp-p (including SYNC) 75 ohms<br>0.3 Vp-p (burst level) 75 ohms×2 |
| Intercom | 4-wire system: 0 dB, 600 ohms balanced<br>RTS system : –10 dB, 200 ohms, unbalanced | |
| Audio signal | –20 dBm, 600 ohms | |
| **INPUT SIGNALS** | | |
| External sync signal | Composite video signal: 1 Vp-p, 75 ohms (bridge connectable) or black burst: 0.45 Vp-p | |
| RET signal | Composite video signal or VS: 1 Vp-p,<br>75 ohms × 2 (bridge connectable) | |
| Intercom | 4-wire system: 0 dB, 600 ohms<br>RTS system ; –10 dB, 200 ohms, unbalanced | |
| Programme audio | –4 dB, 600 ohms, unbalanced | |
| Tally | Contact supply or power supply (5–24 V DC or 6 V AC) | |
| **OTHERS** | | |
| Input voltage | 220 V/240 V AC, 50/60 Hz | |
| Power consumption | 68 W (including camera with<br>VF-P550) | |
| Weight | Base station: 10.2 kg (22.5 lbs.)<br>Camera adapter: 2.5 kg (5.5lbs.) | |
| Ambient temperature | –0°C to 40°C (32°F to 113°F) | |

## Optional Remote Control Panels

**RM-LP35U**




**RM-LP80E**

JVC PROFESSIONAL

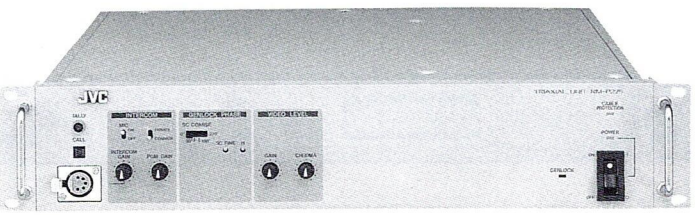
All model numbers, specifications and prices are subject to change without notice.

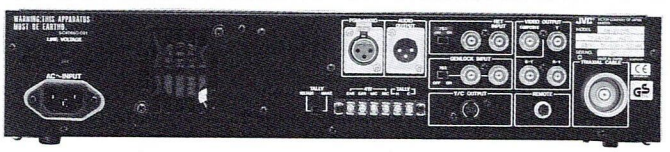
# Component Triaxial System

# RM-P275E



- **Component outputs (Y, R-Y, B-Y), composite outputs, and Y/C outputs**
- **Wide bandwidth 12 MHz for both conventional 4:3 and wide-screen 16:9 aspect ratio**
- **Camera and base station can be separated by a distance of up to 1.5 km (1 mile) via cable**
- **Automatic camera phase control for genlock circuit with composite video (VHS) or black burst (BB) signals**
- **Compatible with high-performance digital cameras (KY-D29/ KY-D29W)**
- **Serial interface for camera operations**
- **Base station operable by remote control panel (RM-LP35)**
- **4-line intercom system**
- **Programme audio output monitoring**
- **19" rack mountable (2U)**

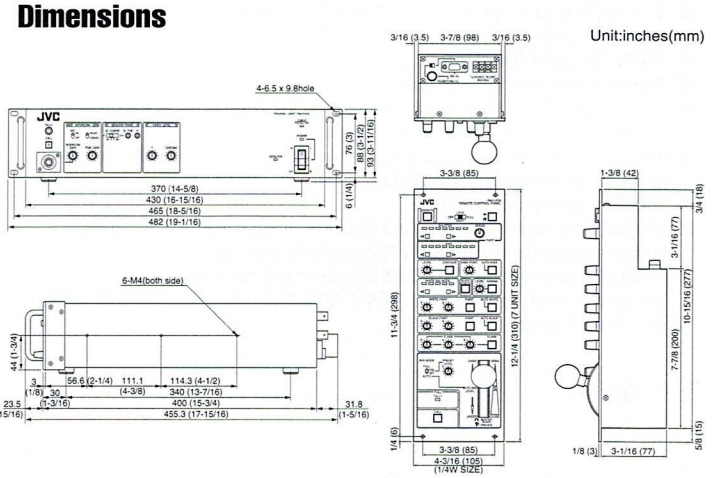


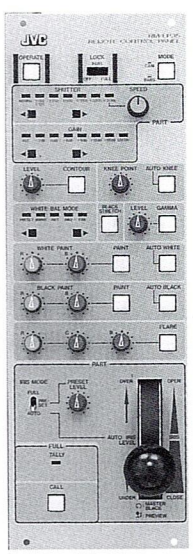


| | | |
|---|---|---|
| **Output signals** | | |
| Component | Y:<br>Pb:<br>Pr: | 1 Vp-p 75 ohms<br>0.7 Vp-p 75 ohms<br>0.7 Vp-p 75 ohms |
| Composite video signal | 1 Vp-p, 75 ohms x 2 | |
| Y/C signal | Y:<br>C: | 1 Vp-p (including SYNC) 75 ohms<br>0.3 Vp-p (burst level), 75 ohms x 2 |
| Intercom | 4-wire system: 0 dB, 600 ohms balanced | |
| Audio signal | -20 dBm, 600 ohms | |
| **Input signals** | | |
| External sync signal | Composite video signal 1 Vp-p, 75 ohms (bridge connectable) or black burst 0.45 Vp-p | |
| RET signal | Composite video signal or VS 1 Vp-p, 75 ohms x 2 (bridge connectable) | |
| MIC input | -60 dBm, 600 ohms | |
| Intercom | 4-wire system: 0 dB, 600 ohms balanced | |
| Program audio | -4 dB, 600 ohms, unbalanced | |
| Tally | Contact supply or power supply (5 - 24 V DC or 6 V AC) | |
| **Others** | | |
| Input voltage | 230/240 V AC, 50/60 Hz | |
| Power consumption | 75 W (including camera with VF-P550B) | |
| Weight | Base station: 11.5 kg (25.4 lbs.)<br>Camera adapter: 2.7 kg (6 lbs.) (including handle and top cover) | |
| Ambient temperature | 0°C to 40°C (32°F to 104°F) | |
| **Accessories** | Power cord x 1,Handle x 1,Extension board x 1,Top cover x 1,Line filter x 1 | |

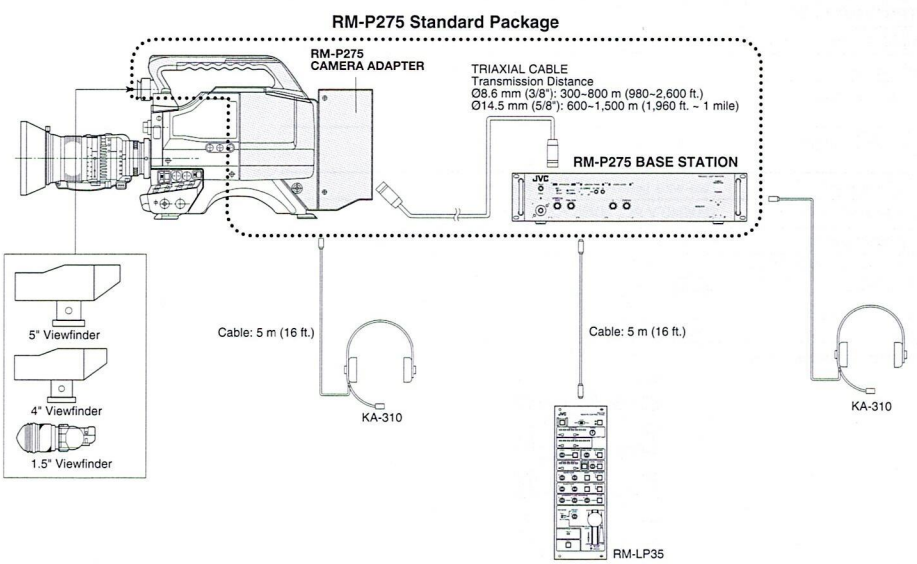
## Dimensions

Unit:inches(mm)



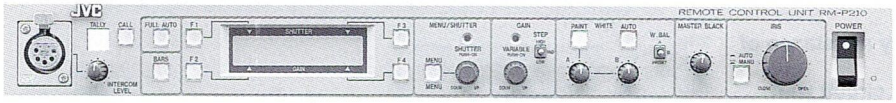
**RM-LP35**

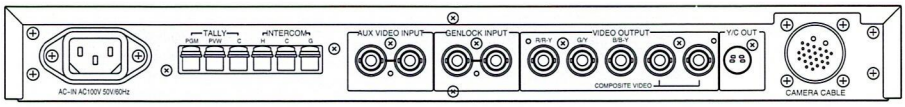


# Multicore Remote Camera/Control Unit

# RM-P210E



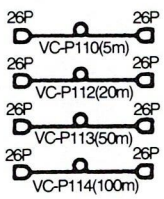



- **Controls cameras over 100 meters (or 325 ft).(GY-DV550/KY-D29 100 meters max.)**
- **Variable gain function**
- **4-channel function button**
- **LCD read out at the base station for simple operation**
- **Menu control for camera setup parameters**
- **Ideal for applications such as studio production, teleconferencing or computer graphics**
- **Built-in genlock function**
- **Serial data communications for more reliable and accurate communications between the camera and RCU**
- **Multi-format outputs; R/G/B component for computer graphics and keying plus Y/R-Y/B-Y component, and Y/C 443 for S-VHS products**

| | |
|---|---|
| **INPUT SIGNALS** | |
| Genlock signal: | Composite video signal 1 Vp-p, 75 ohms (Loop-through output) |
| | Black burst signal 0.43 Vp-p, 75 ohms (Loop-through output) |
| AUX signal: | Composite video signal 1 Vp-p, 75 ohms (Loop-through output) |
| Intercom signal: | Two-wire system, –10 dB, 600 ohms balanced |
| Tally signal: | Contact closure or power (5–24 V DC or 6 V AC) supply, B tally, R tally |
| **OUTPUT SIGNALS** | |
| Composite video signal: | 1 Vp-p, 75 ohms x 2 |
| R/G/B signals: | 0.7 Vp-p, 75 ohms x 1 each (without sync) |
| Y/R-Y/B-Y signals: | Y: 1 Vp-p, R-Y: 0.486 Vp-p, B-Y: 0.486 Vp-p, 75 ohms each |
| Y/C S/C 443 signals: | Y: 1 Vp-p, 75 ohms, C: 0.3 Vp-p, 75 ohms (burst level) |
| Intercom signal: | Two-wire system, –10 dB, 600 ohms balanced |
| Power requirements | 220/240 V AC, 50/60 Hz |
| Power consumption | More than 46 W |
| Ambient temperature range | –5°C – +45°C |
| Dimensions | 482 (W) × 54 (H) × 298.5 (D) mm (19" × 2-5/32" × 10-1/8") |
| Weight | 5 kg (11.1 lbs.) |

**Optional Accessories**




**VC-P110 Series 26p Multicore Cables**

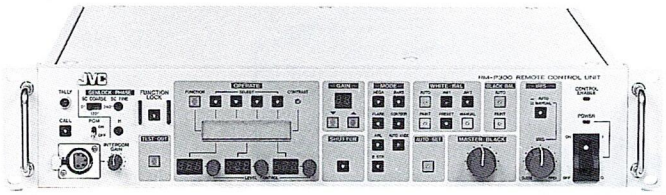


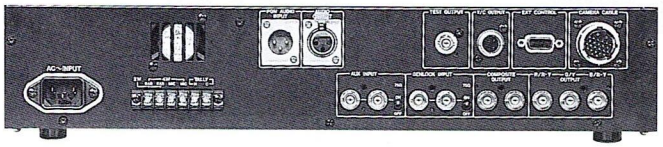
All model numbers, specifications and prices are subject to change without notice.

# Multicore Remote Camera Control Units



## RM-P300E





- **Extendable up to between 250 and 300 m via VC-P110 series multicore cable**
- **Can output composite, Y/C 443 and component signals (Y, R-Y, B-Y or R, G, B selectable)**
- **One audio output and one programme input are available**
- **Can be connected to the Remote Control Panel RM-LP35U for remote operation**
- **LCD read out at the base station for simple operation**

| INPUT SIGNALS | |
|---|---|
| External sync signal | VBS: 1.0 Vp-p or BB: 0.45 Vp-p, 75 ohms, bridge-connectable |
| AUX VIDEO signal | VBS: 1.0 Vp-p, 75 ohms, VS: 1.0 Vp-p, 75 ohms, bridge-connectable |
| Intercom signal | 2 W (–10 dB, 600 ohms, balanced)/ 4 W (0 dB, 600 ohms, balanced) |
| Aux audio signal | –4 dB, 600 ohms, unbalanced |
| Tally signal | Contact supply or power (5 – 24 V DC or 6 V AC) supply |
| **OUTPUT SIGNALS** | |
| Test signal 1 1 | VBS × 2, Y/C × 1, RGB./Y,R-Y,B-Y (Switchable) × |
| Video signal | VBS × 1 |
| Audio signal | 2 ch. |
| Power requirement | 220/240 V AC, 50/60 Hz |
| Power consumption | 115 W (incl. camera furnished with VF-P550)/ 27 W (RM-P300E only) |
| Ambient temperature range | –10°C – +45°C |
| Dimensions (W × H × D) | 482 × 93 × 366.5 mm (19" × 3-11/16" × 14-7/16") |

## RM-P200E

- **Controls cameras KY-D29E, KY-27CE, KY-19E over extended distance of over 100 meters (325 ft.)**
- **Ideal for normal applications such as studio production, remote truck teleconferencing or computer graphics**
- **Built-in genlock function**
- **Serial data communications for more reliable and accurate communications between the camera and RCU**
- **Multi-format outlets supply; R/G/B component for computer graphics and keying plus Y/R-Y/B-Y component for MII or Y/C 443 for S-VHS products**

| INPUT SIGNALS | |
|---|---|
| Genlock signal: | Composite video signal 1 Vp-p, 75 ohms (Loop-through output)<br>Black burst signal 0.45 Vp-p, 75 ohms (Loop-through output) |
| AUX signal: | Composite video signal 1 Vp-p, 75 ohms (Loop-through output) |
| Intercom signal: | Two-wire system, –10 dB, 600 ohms balanced |
| Tally signal: | Make-contact or power (5 – 24 V DC or 6 V AC) supply |
| **OUTPUT SIGNALS** | |
| Composite video signal: | 1 Vp-p, 75 ohms x 2 |
| R/G/B signals: | 0.7 Vp-p, 75 ohms x 1 each (without sync) |
| Y/R-Y/B-Y signals: | Y: 1 Vp-p, R-Y: 0.486 Vp-p, B-Y: 0.486 Vp-p, 75 ohms each |
| Y/C 443 signals: | Y: 1 Vp-p, 75 ohms, C: 0.3 Vp-p, 75 ohms (burst level) |
| Intercom signal: | Two-wire system, –10 dB, 600 ohms balanced |
| Power requirement | 220/240 V AC, 50/60 Hz |
| Power consumption | 65 W (incl. camera furnished with Viewfinder<br>11 W (RM-P200E only) |
| Ambient temperature range | –10°C – +45°C |
| Dimensions (W × H × D) | 482 × 54 × 256 mm |
| Weight | 5.0 kg (11.1lbs.) |

## Optional Accessories

**RM-LP35U**

## Optional Accessory

**VC-P110 Series 26p Multicore Cables (5 m, 20 m, 50 m, 100 m)**

All model numbers, specifications and prices are subject to change without notice.

# Progressive Scan SXGA 3-CCD Digital Camera

## KY-F70BU

- SXGA output available in both digital and analogue forms for future-proofed flexibility.
- 3-CCD prism system for separate processing of R, G and B for perfect colour rendition.
- Square-pixel on-chip progressive scan CCDs, each with 1.45 million pixels, totalling 4.35 million.
- 1360 x 1024 pixel resolution equates to 1,000 TVL in horizontal and vertical.
- C-mount, half inch size fits a wide variety of scopes and lenses.
- For applications using Infra Red there is external access to IR cut filter for replacement by special JVC quartz filter.
- Extended integration up to 4 seconds. (Slow Shutter Mode)
- Pixel masking algorithm for optimised image quality.
- Special algorithm for improved S/N ratio.
- User-selectable Syncs: either Separate Syncs or Sync on Green.
- WYSIWYG live preview mode. (Live Colour Preview on VGA Monitor)
- External trigger function for Sensor or Flash Synchronisation.
- Internal Frame Memory holds up to four images in uncompressed data format to avoid degradation.
- IEC601-1 and UL-2601 Approval, using AA-P700, for use in certain medical applications.
- Shot & Print, Shot & Save capability through SCSI master mode.

**JVC Proprietary Software Supplied as Standard**

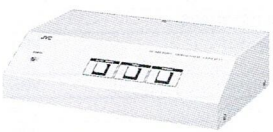
- 'KY-SCSI' software package provides camera control and image capturing direct to PC via SCSI-2.
- TWAIN 32 driver for importation of images.
- RS-232C camera control software

### Designed to Accommodate IR Applications

The IR cut filter for use with the KY-F70BU is easily detachable if required. The JVC-supplied special quartz filter used in place of the IR cut filter permits black-and-white photography in the IR (Infra Red) region. This is JVC's answer for applications requiring ultra low illumination photography.

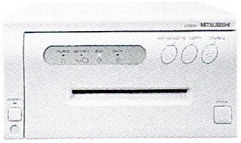
### OPTIONS

**AA-P700**
AC Power Adapter
AA-P700EK (IEC601-1 Conformed)
AA-P700EG (IEC601-1 Conformed)
AA-P700MDU (UL-2601 Approved)
AA-P700U (General use)



**KM-F700U**
SXGA Scan Rate Converter

### RECOMMENDED ACCESSORIES



**Printers:**

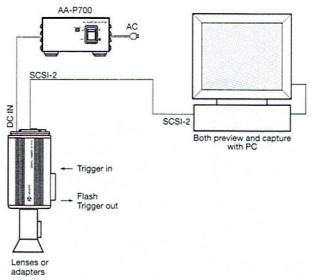
- Mitsubishi CP800DW
- Mitsubishi CP700DSU/DSE
- Mitsubishi CP770DW

**S14x7.3DA-D24**
14:1 Power Zoom Lens
(Fujinon lens)



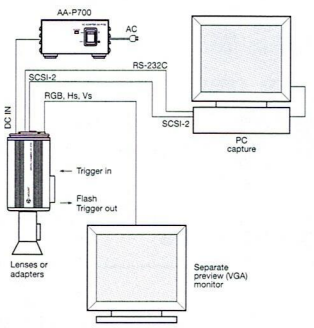
All model numbers, specifications and prices are subject to change without notice.

# KY-F70BU



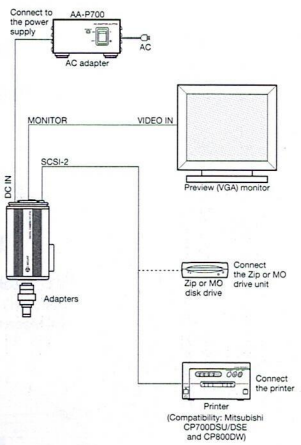

**Direct PC 'KY-SCSI' Capturing System**
Via the SCSI terminal, high resolution SXGA images can be captured directly to a PC.

- The camera can be controlled via the PC. In this system the PC is the SCSI host and the camera is the SCSI peripheral.
- Images captured to a PC may be processed and manipulated in application software JVC 'KY-SCSI' (bundled).
- JVC 'KY-SCSI' provides all control for KY-F70BU.
- The Preview Mode is live colour but without full motion.

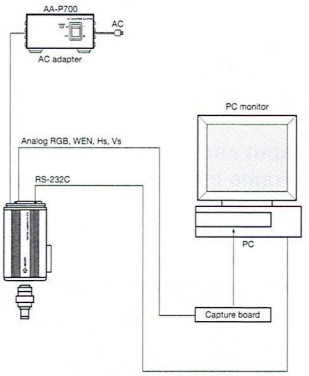



**Direct PC 'TWAIN32' Capturing System**
Via the SCSI terminal, high resolution SXGA images can be captured directly to a PC. Separate VGA monitor preview allows selection of the images.

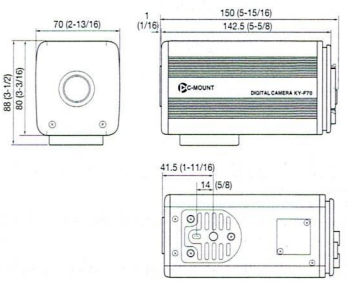
- The camera can be controlled via the PC. In this system the PC is the SCSI host and the camera is the SCSI peripheral.
- Images captured to a PC may be processed and manipulated in application software such as Photoshop®.
- To run this system, the JVC camera remote control software and the TWAIN 32 capture software need to be installed in the PC.
- Live preview available in full motion colour via VGA screen.




**Direct Digital Connection for Printing or Storage**
This system does not require a PC. Live colour preview on the monitor allows selection of the images to be captured to Printer or Zip drive (or MO).




**PC System Using Capture Board**
Via the 15-pin RGB port, SXGA resolution images may be captured with an appropriate Image Digitising Board. Live colour preview is available on the PC screen and captured images can be verified at their full resolution.




**Unit: mm (inches)**

| | |
|---|---|
| Image device | 1/2-inch Interline Transfer CCD x 3 in co-site array |
| Scanning | Progressive |
| Total pixels | 4.35 million (3 x 1.45 million) pixels |
| Effective pixels for CCD | 1.45 million pixels (H: 1,392 x V: 1,040) |
| Output pixels | 1360 x 1024 square pixels |
| Aspect ratio | 4:3 |
| Lens mount | 1/2-inch C mount |
| Output signal (Analogue and SCSI) | SXGA 1360 x 1024 pixels 7.5 frames/sec. |
| Preview Modes (Analogue) | VGA: 640 x 480 pixels 60 frames/sec. (Image refresh rate 7.5 frames/sec.)<br>VGA: 640 x 480 pixels 60 frames/sec. (Image refresh rate 30 frames/sec., vertical resolution: 240 lines) |
| Digital interface | SCSI-2 50P half-pitch SCSI connector |
| Analogue output | R/G/B 0.7 V(p-p) 75 ohms each |
| Sync output | Hs/Vs 3 V(p-p) (low active) |
| Image memory | 5 frames (4 frames in SXGA analogue mode) |
| Sensitivity | ISO100 |
| Quantisation | 10 bit in 8 bit out |
| White balance | Auto and manual |
| White paint | Manual, flare compensation, dynamic shading |
| Gain | ISO100, 200, 400 (0 dB, +6 dB, +12 dB) |
| Electronic shutter | 4 secs to 1/2000th sec (in 16 steps), V.SCAN and EEI |
| Operating temperature | 0 — 40°C |
| Input voltage | DC12V |
| Power consumption | Approx. 15W |
| Weight | Approx. 850g (1.9 lbs.) |
| Dimensions (W x H x D) | 70 x 80 x 150mm<br>2-13/16 x 3-3/16 x 5-15/16 inches |
| Medical approval | IEC601-1 Conformed with AA-P700EK/EG<br>UL-2601 Approved with AA-P700MDU |

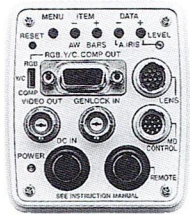
# 1/2" Bayonet 3-CCD Colour Video Camera

# KY-F32E



- **Standard 1/2" bayonet mount**
- **750 horizontal lines with a high sensitivity of F 8 at 2,000 lux and minimum illumination of 7.5 lux**
- **Memory function**
- **Comprehensive input and output terminals**
- **High-Resolution Frame Integration Mode boosts vertical resolution to 480 lines**
- **Negative video function**
- **Full-time automatic operation**
- **Menu setup control on camera head and with RS-232C**

| | |
|---|---|
| Image pickup device: | 1/2" interline CCD X 3 (R,G,B) |
| Colour separation optical system: | 1/2" F1.4 RGB 3-colour separation prism |
| Number of pixels (effective): | 440,000 |
| Colour system: | Wideband R-Y, B-Y encoder |
| Synchronising system: | Internal/External |
| Colour bar generator: | Built-in, EBU type |
| Lens mount: | 1/2" bayonet |
| Sensitivity: | F8/2,000 lux |
| Minimum required illumination: | 7.5 lux (F1.4, 18dB, 100% IRE video level) |
| Electric gain: | 0 dB, 6 dB, 9 dB, 12 dB, 18 dB, ALC |
| S/N ratio (standard): | 60 dB (Detail correction OFF, Gamma 1) |
| Detail correction: | Dual-edged |
| Horizontal resolution: | 750 TV lines (Y signal), 580 TV lines (RGB signal) |
| Registration: | 0.05% (excluding lens characteristics) |
| Electronic shutter: | 1/50, 1/120, 1/250, 1/500, 1/1000, 1/2000 sec., EEI |
| Variable scan: | 1/60.3 to 1/2074.6 |
| Negative video function: | Provided |
| Frame integration mode: | Provided |
| External sync signal input: | Composite video signal 1 V(p-p), 75 ohm or black burst signal 0.45 V(p-p), 75 ohm |
| Output signals | |
| Composite video signal: | 1 V(p-p), 75 ohms BNC connector one channel, D-SUB 9-pin connector one channel |
| Y/C signal | Y: 1 V(p-p), 75 ohms (including sync) C: 0.3 V(p-p), 75 ohms (burst) D-SUB 9-pin connector one channel |
| RGB signal: | 0.7 V(p-p), 75 ohms (without sync) each D-SUB 9-pin connector one channel |
| Component signal: | Y: 1 V(p-p), 75 ohms R-Y/B-Y: 0.525 V (p-p), 75 ohms D-SUB 9-pin connector one channel |
| Composite sync signal: | 2 V(p-p), 75 ohms D-SUB 9-pin connector one channel |
| Remote input: | Applicable to the RM-LP55U/LP57U convertible to RS-232C with optional VC-P893U/894U |
| Power supply: | 12 V DC (10.5 to 15 V) |
| Power consumption: | 0.7 A (camera only), 1.1 A (maximum load) |
| Ambient temperature range: | -5°C to +40°C (23°F to 104°F) |
| Weight: | 850 g (1.9 lbs) |
| Accessories: | DC cable ( VC 462-2:2 m) X 1 |




## Optional Accessories

**RM-LP55U**
Camera Remote Control Unit

**RM-LP57U**
Camera Remote Control Unit
(Rack Mount Type)

**RM-713MDU**
Lens Remote Control Unit

**VC-P893U**
RS-232C Interface Cable

**VC-P894U**
RS-232C Interface Cable for Macintosh

**S14x7.5BMDU**
14:1 Power Zoom Lens

**YH13x7.5BKTSU**
13:1 Power Zoom Lens

**AA-P700E**
AC Power Adaptor



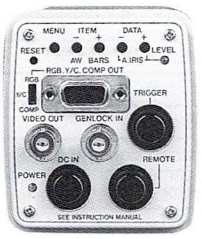
All model numbers, specifications and prices are subject to change without notice.

# 2/3" C Mount 3-CCD Colour Video Camera

# KY-F50E



- **High-performance 3-CCD camera**
  **Thanks to newly developed 1/3-inch 440,000 pixel CCDs with on-chip lens, the KY-F50 delivers a superb, high-quality picture with an S/N ratio of 58 dB and sensitivity as high as 2000 lux at F10. High-precision bonding technology and new circuitry incorporated in the CCD assure horizontal resolution of 700 lines.**
- **Compact, lightweight camera with C mount**
  **Weighing a mere 870 grams, the KY-F50's remarkably compact, lightweight design has been made possible by the incorporation of a newly developed IC, 2/3-inch optical system.**
- **Comprehensive functions**
  - **Automatic functions including ALC, EEI and FAW.**
  - **Remote control signal input connector for the optional remote control unit (RM-LP55)**
- **Comprehensive signal outputs**
  - **Composite video signal (D-SUB 9-pin, BNC)**
  - **Y/C443 signal (D-SUB 9-pin)**
  - **R/G/B signal (D-SUB 9-pin)**
  - **Component signal (D-SUB 9-pin)**
  - **Composite sync signal (D-SUB 9-pin)**
- **Negative/positive function**
  **For special applications such as film shooting**
- **Dynamic shading compensation function**
  **Compensates for uneven colour caused by combining the lenses.**
- **High-resolution function enhances vertical resolution**
- **Back focus compatible with 16 mm film type lenses.**
- **IEC 601-1 Medical Certificate**




| | |
|---|---|
| Pickup device | 1/3 inch interline CCD × 3 |
| Effective number of pixels | 440,000 pixels |
| Colour separation optical system | F1.4, RGB 3-colour separation prism |
| Lens mount | C mount (2/3 inch optical system) |
| Colour system | PAL (wideband R-Y, B-Y encoder) |
| Sync system | Internal/external |
| Sensitivity | F10, 2000 lux |
| Actual-use minimum illumination | 20 lux (F3.2, + 18 dB) 100% video level |
| S/N ratio | 58 dB (typical) |
| Horizontal resolution | 700 TV lines (Y signal)<br>580 TV lines (RGB signal) |
| Registration | 0.05% at centre (excluding lens characteristics) |
| Contour correction | Horizontal; dual-edged<br>Vertical; dual-edged |
| Negative function | Provided |
| High-resolution mode | Provided |
| Gain | +6 dB, +9 dB, +12 dB, +18 dB, ALC |
| Electronic shutter speed | Normal (1/150 sec)<br>1/120, 1/250, 1/500, 1/1000, 1/2000, EEI |
| External sync signal input | Composite video signal 1 V(p-p), 75 ohms or black burst signal 0.45 V(p-p), 75 ohms |
| Colour bars | Built-in EBU colour bars signal |

| **OUTPUT SIGNALS** | |
|---|---|
| Composite video signal: | 1 V(p-p)<br>BNC connector one channel, D-SUB 9-pin connector one channel |
| Y/C signal | Y: 1 V(p-p), 75 ohms (including sync)<br>C: 0.3 V(p-p), 75 ohms (burst)<br>D-SUB 9-pin connector one channel |
| RGB signal | 0.7 V(p-p), 75 ohms (without sync) each D-SUB 9-pin connector one channel |
| Component signal | Y: 1 V(p-p), 75 ohms<br>R-Y/B-Y: 0.525 V(p-p), 75 ohms<br>D-SUB 9-pin connector one channel |
| Composite sync signal | 2 V(p-p), 75 ohms<br>D-SUB 9-pin connector one channel |
| Trigger connector | TRG: 5 V(p-p) (Negative polarity)<br>SI: 5 V(p-p) (Negative polarity)<br>WEN: 5 V(p-p) (Negative polarity) |
| Remote connector | Applicable to the RM-LP55 |
| Power supply | 12 V DC (10.5 to 15 V) |
| Power consumption | 8.5 W (camera only), 12 W (maximum load) |
| Ambient temperature range | –5°C to 40°C (23°F to 104°F) |
| **ACCESSORIES** | |
| Power supply | AA-P700E |
| Remote control unit | RM-LP55U/RM-LP57U |
| RS232 Interface cable | VC-P893U (IBM PC/AT)<br>VC-P894U (Macintosh) |

All model numbers, specifications and prices are subject to change without notice.

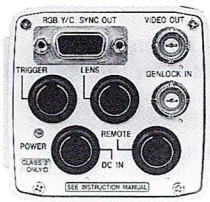
# 1/3" C Mount 3-CCD Colour Video Camera

# KY-F55BE



- **C-Mount compatibility**
- **Random Trigger for strobe synchronisation**
- **Slow Shutter for low light image capture**
- **High-resolution Frame Integration Mode**
- **Variable speed electronic shutter**
- **Compact and lightweight**
- **EBU type colour bar generator**
- **Full-time Auto/Manual White Balance and Two Auto White memories**
- **Enhanced Automatic Level Control (ALC) with Extended Electronic Iris (EEI)**
- **Wide range of video outputs**
- **Auto Internal Sync/External Sync switching**
- **Flexible camera mountings**
- **RS-232C interface capability**
- **White shading correction**

**Shown with optional lens (HZ-610MDU)**




| | |
|---|---|
| Image pickup device: | 1/3-inch interline CCD x 3 (RGB) |
| Colour separation optical system: prism | 1/3-inch F1.4 RGB 3-colour separation |
| Number of pixels (effective): | 440,000 pixels |
| Colour system: | Wideband R-Y, B-Y encoder |
| Synchronizing system: | Internal/External |
| Genlocking input: | Composite video signal, VBS, BB, 1 V(p-p), 75-ohms (or black burst signal) BNC connector |
| Colour bar generator : | Built in, EBU type |
| Lens mount: | C-mount |
| Sensitivity: | F5.6, 2000 lux |
| Sensitivity selection: | (Through remote control); 0 dB/6 dB/9 dB/ 12 dB/18 dB/ALC + EEI (Through camera); 0 dB/ALC/EEI/ALC + EEI |
| S/N ratio: | 58 dB (typical) |
| Registration: | 0.05% (excluding lens characteristics) |
| Horizontal resolution: | 750 TV lines (Y channel)<br>580 TV lines (RGB) |
| Contour correction: | Adjustable through remote control unit RM-LP55U<br>Horizontal: dual-edged<br>Vertical: single-edged |
| Video signal output: | Composite video signal: VBS<br>1 V(p-p), 75 ohms<br>R/G/B signals: 0.7 V(p-p), 75 ohms<br>Composite sync signal: 2 V(p-p), 75 ohms |
| Y/C 443 output: | Y signal: 1 V(p-p), 75 ohms<br>C signal: 0.3 V(p-p), (burst level) 75 ohms |
| Electronic shutter speed: | 1/100, 1/250, 1/500, 1/1000, 1/2000 sec. |
| Variable scan: | 1/60.3 to 1/2074.6 |
| Trigger connector: | 5-pin, 5 V(p-p) |
| Lens pin connector: | 8-pin, applicable to the HZ-610MDU, HZ-G6350U, T14 x 5.5 MDU |
| Remote input: | compatible with the RM-LP55U convertible to RS-232C with optional VC-P893U/894U |
| Power source: | 12 V DC (10.5 to 15 V), 7.5 W (Camera head only) |
| Operating temperature range: | –5°C to + 40°C (23°F to 104°F) |
| Weight: | 490 g/1.1 lbs. (without lens) |

## Optional Accessories

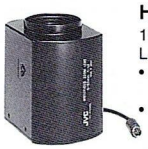
**HZ-M161U**
Nikon Microscope Adapter
For use with ×2 series microscopes

**HZ-M162U**
Olympus Microscope Adapter
For use with BH2 series microscopes

**HZ-M163U**
Zeiss Microscope Adapter
For use with AX10 series microscopes

**VC-P893U**
RS-232C Interface Cable

**VC-P894U**
RS-232C Interface Cable for Macintosh

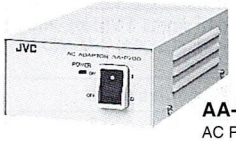


**HZ-610MDU**
10:1 Motorised Zoom Lens
- C-mount for 1/3" 3-CCD camera
- Focal length: 6 mm to 60 mm

**T14 x 5.5MDU**
14:1 Motorised Zoom Lens

**HZ-G6350U**
Variable Focal Lens
- C-mount for 1/3" 3-CCD camera
- Focal length: 3.5 mm to 8.0 mm

**RM-LP55U**
Camera Remote Control Unit



**AA-P700E**
AC Power Adaptor

**RM-LP57U**
Camera Remote Control Unit (rack mount type)



All model numbers, specifications and prices are subject to change without notice.

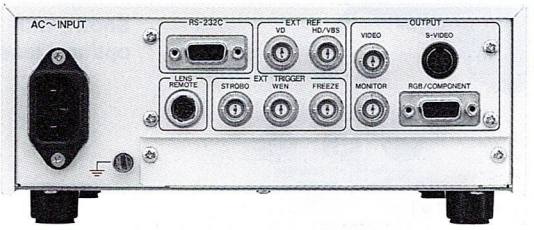
# 1/3" 3-CCD Separate Camera Head System

# KY-F58E



- **3-CCD RGB prism block, each CCD with 440,000 effective pixels, provides high resolution images**
- **High sensitivity means that images can be captured over a wide range of lighting conditions**
- **Complementing the Auto White-Balance function is intelligent Auto Iris which makes the KY-F58 particularly well-suited to microscopy and other applications which may have irregular reflections**
- **The CCU features an RGB image memory and framestore which allows capture of a high quality still image**
- **The KY-F58 has instant connectivity to a wide range of existing optical equipment thanks to its C-mount being a universal standard for lens to camera coupling. The camera head also includes connection for motorized lens control**
- **An RS-232C port is provided for direct connection to a PC, providing additional remote serial digital control**
- **The KY-F58 comes standard with a 5-meter umbilical cord between head and CCU. This may be extended to 25 meters**
- **Memory for up to 16 operator settings (scene files)**
- **Built-in key functions: Shutter iris/Full-time auto white/Freeze function/Random trigger function/Long time exposure function**
- **Optional SA-K58SU internal SCSI capture board also available**

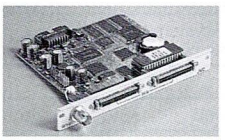
**Camera head**




**CCU (Camera Control Unit)**

| | |
|---|---|
| Image pickup device: | 1/3" Interline Transfer CCDs |
| Picture elements: | (H) 768 x (V) 494 |
| Optical system: | 1/3" F1.4 RGB prism |
| Colour system: | Wideband R-Y, B-Y encoder |
| Synchronisation: | Internal/external (VS; HD, VD) |
| Lens mount: | C-mount (FB: 17.526 mm) |
| Colour bar: | EBU type |
| Sensitivity: | F5.6/2000 lux |
| Horizontal resolution: | 700 TV lines |
| Signal to noise ratio: | 58 dB |
| Minimum illumination: | 15 lux |
| Gain: | 0 - 18 dB |
| Electronic shutter speed: | 1/50, 1/120, 1/250, 1/500, 1/1000, 1/2000 variable scan |
| Iris area: | Selectable |
| Scene file: | 16 types, max. |
| Strobe connector: | BNC |
| RS-232C control: | D-sub 9-pin |
| Video signal output: | Composite, Y/C, RGB, Component |
| Power source: | 230 V AC |
| Power consumption: | 22 W |
| Dimensions (WxHxD): | Camera head: 45 x 48 x 62 mm<br>CCU 210 x 88 x 221 mm |
| Weight: | Camera head: 180 g (0.4 lbs.)<br>CCU: 3 kg (6.7 lbs.) |
| Max. cable length: | 25 m (5 m cable provided:VC-P805U) |
| Camera cable options: | VC-805U (5m), VC-810U (10 m) |

## Optional Accessories



**SA-K58SU**
Internal SCSI
Capture board

**HZ-M161**
Nikon Microscope
Adapter
For use with ×2 series
microscopes

**HZ-M162**
Olympus Microscope
Adapter
For use with BH2
series microscopes

**HZ-M163**
Zeiss Microscope
Adapter
For use with AX10
series microscopes

**HZ-G6350**
Variable Focal Lens
- C-mount for 1/3" 3-CCD camera
- Focal length: 35 mm to 8.0 mm

**VC-451-2U**
D-sub 9-pin
RGB Cable (2 m)

**T14X5.5MDU**
14:1 Motorised
Zoom Lens

All model numbers, specifications and prices are subject to change without notice.

# 1/2" CCD Computer Imaging Colour Video Camera

## TK-1270E



- 1/2" CCD delivering 460 lines of horizontal resolution
- Two video outputs (RGB/composite video signals)
- High S/N ratio of 50 dB
- Through-the-lens auto tracking white balance
- Changeable C/CS lens mount allows selection from a wide range of lenses

**Shown with optional lens**

| | |
|---|---|
| Signal system: | Based on PAL standard |
| Image device: | 1/2" single CCD |
| Pickup element: | IT (Interline-Transfer) system CCD (with complementary colour filter: Yc-Cy-Mg-Gr) |
| Effective picture elements: | 752 (H) × 582 (V) |
| Scanning lines: | 625 lines, 2:1 interlaced |
| Scanning frequency: | 15.625 kHz (H) × 50 Hz (V) |
| Sync system: | Internal, External |
| Sync input: | Composite video signal (VBS)/1.0V(p-p), 75 ohms terminated (or black burst signal (BB)) |
| Video output: | Composite video signal: 1.0V(p-p), 75 ohms, unbalanced RGB video signal: 0.7 V(p-p), 75 ohms |
| Sync output: | Composite sync signal: 2.0 V(p-p), 75 ohms (negative) |
| Video S/N: | 50 dB (2000 lux, AGC "OFF") |
| Horizontal resolution: | 460 TV lines (composite/RGB) |
| Minimum required illumination: | 3 lux (f/1.2, AGC "ON") |
| Electronic shutter: | NORMAL (1/50), 1/120, 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 sec., or electronic shutter iris mode |
| White balance: | TTL Auto: 2850°K ~ 7000°K Manual adjustment: 2850°K ~ 7000°K under 2 peculiar axes systems, G-Mg, R-B |
| Preset indoor: | 3200°K |
| Lens mount: | C mount (with C-mount adapter) CS mount (without C-mount adapter) |
| AGC: | On and OFF (0 ~ +18 dB) |
| Power requirement: | DC 12 V (±10%) |
| Power consumption (max.): | 7.6 W |
| Operating temperature: | 0°C ~ +40°C (32°F ~ 104°F) |
| Weight: | Approx. 600 g (1.3 lbs.) |

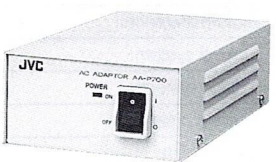
## Common Accessories

**VC-451-2U**
**Camera Cable**
Connecting between:
Cameras and RGB Monitor
Cable length: 6.6 ft (2 m)

**VC-452-2U**
**VC-452-4U**
**Camera Cable**
Connecting between:
Cameras and Graphic Boards
Cable length:
6.6 ft (2 m) for VC-452-2U
13.2 ft (4 m) for VC-452-4U

**VC-463-2U**
**Camera Cable**
Connecting between:
Cameras and Graphic Boards
Cable length: 6.6 ft (2 m)

**VC-464-4U**
**Camera Cable**
Connecting between
Cameras and Targa +
Cable length: 13.2 ft (4 m)




**AA-P700E**
**AC Power Adapter**



All model numbers, specifications and prices are subject to change without notice.

# S-VHS and VHS Products



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# 3-CCD Colour Video Camcorder

PROFESSIONAL S

# GY-X2BE

S-VHS 625 VHS PAL



- **Innovative video technologies including new 1/2" CCDs achieve 750 lines of horizontal resolution, virtually elminate smear, and give an impressive S/N of 60 dB.**
- **The LOLUX mode requires only 1.5 lx when shooting under low-light conditions.**
- **Electronic shutter lets you select speeds form 1/120 to 1/2000 second.**
- **In the Quick Recording Mode, the GY-X2BE activates ALC and EEI for variable gain, variable shutter, and Full-Time Auto White (FAW), so the operator just has to point and shoot.**
- **The Variable Scan View function ensures flicker-free shooting of a CRT.**
- **New shoulder pad enhances comfort and stability.**
- **The GY-X2BE features a full-sized professional VTR head drum for reliable high-quality image reproduction from the built-in S-VHS VTR.**
- **Continuous Auto Black circuit eliminates auto black manual switching.**

* Dolby noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation. Dolby and the Double-D symbol DOLBY B NR are trademarks of the Dolby Laboratories Licensing Corporation.

| CAMERA SECTION | |
|---|---|
| Image pickup device | 1/2-inch interline CCDs |
| Colour separation optical system | 3-colour seperation prism |
| Number of effective pixels | 440,000 pixels |
| Colour system | PAL (R-Y,B-Y encoder) |
| Colour bars | EBU type |
| Sync system | Internal/external sync (auto) |
| Lens mount | Bayonet system (FB 35.74 mm, 1/2" CCD cameras) |
| Optical filter | 3200° K, 5600° K, 5600° K + ND |
| Sensitivity | F8,2000 lx |
| Gain | 0, +9 dB, +18 dB, LOLUX, ALC |
| Minimum illumination | 7.5 lx with F1.4, +18 dB gain |
| Lolux minimum illumination | 1.5 lx with F1.4 |
| S/N ratio | 60 dB (typical) |
| Horizontal resolution | 750 lines (luminance signal) |
| Detail correction | Horizontal: dual-edged; Vertical: dual-edged |
| Shutter speed | 1/120, 1/250, 1/500, 1/1000, 1/2000, variable |
| Variable scan | 50.1 Hz to 2067.8 Hz |
| White balance | 2 auto white memories, 1 preset and Full-Time Auto White |
| **VTR SECTION** | |
| Format | VHS/S-VHS EUROPE standard |
| Tape speed | 23.39 mm/sec |
| Record/playback time | 180 min. (with SE-180 cassette) |

| | |
|---|---|
| Hi-Fi audio dynamic range | More than 80 dB |
| Horizontal resolution (colour) | 400 lines or more (S-VHS mode)<br>250 lines or more (VHS mode) |
| Video S/N ratio (colour) | 45 dB (VHS S-VHS mode) |
| Audio S/N ratio | 48 dB (NR:ON) |
| **INPUT/OUTPUT SIGNALS** | |
| Video signal output | 1.0V (p-p)/75 ohms (BNC) |
| Lens | 12-pin connector |
| Y/C signal output | Y: 1.0V (p-p)/75 ohms,<br>C: 0.3V (p-p)/75 ohms (Burst), 7-pin connector |
| DC input | 12V DC (11.0 to 15.0V DC) |
| Battery requirement | 10.5V (discharged) up to 17.0V (full charged) battery rating not to exceed 14.4 V nominal |
| Genlock input | VBS 1.0V (p-p) or BB 0.45V (p-p)/75 ohms (BNC) |
| Microphone input | -52 dBs (6-pin), unbalanced |
| Audio input | +4 dBs/10 kohms (select the switch): -60 dBs/3kohms (select the switch), (XLR3), balanced, 2 inputs |
| Audio output | -6 dBs/1 kohm (RCA), unbalanced |
| Earphone output | -60 dBs to -12 dBs/8 ohms (ϕ3.5 mini-jack) |
| **GENERAL** | |
| Power consumption | 25.2 W (including the lens and 1.5-inch viewfinder) |
| Weight | Approx.6 kg (13 lbs.) (incl. 1.5-inch viewfinder) |
| Operating temperature range | 0°C to +40°C (+32°F to +104°F) |
| Storage temperature range | -20°C to +60°C (-4°F to +140°F) |



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# Dockable Recorder

## BR-S422E

S-VHS 625 VHS PAL



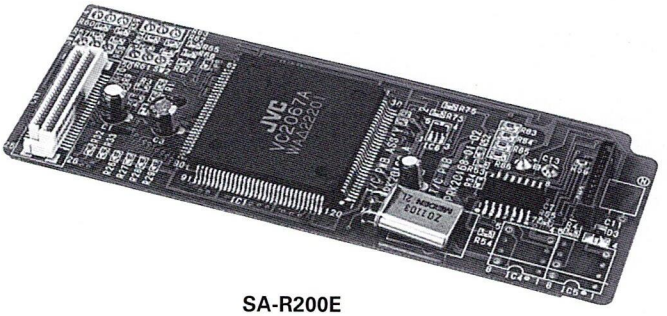
- **Compact and lightweight design**
- **High-quality S-VHS pictures with resolution of more than 400 lines with maximum 180 min. recording**
- **Quick-response recording start**
- **EBU standard LTC or VITC recording capability via optional time code generator SA-R200E**
- **2-channel Hi-Fi and 2-channel linear audio**
- **Built-in AEQ generator**
- **Built-in loudspeaker**
- **REC CHECK function**
- **Rotary erase head**
- **Backlit LCD display**
- **LCD display indicates time codes, control track data, and tape remaining time**
- **Heavy-duty diecast aluminum body**
- **LED operation indicators**
- **Battery power remaining indicator**
- **Hour meter (switchable from tape counter)**
- **Video/Hi-Fi audio insert editing**
- **Self-diagnostic and maintenance-oriented design**

* Dolby noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation. Dolby and the Double-D symbol DOLBY B NR are trademarks of the Dolby Laboratories Licensing Corporation.

| GENERAL | |
|---|---|
| Format: | VHS/S-VHS EUROPE- standard |
| Power requirement: | DC 12 V |
| Power consumption: | 13 W |
| Dimensions: | 292 (W) x 242 (H) x 131 (D) mm (with battery holder) |
| Weight: | 3.2 kg |
| Temperature Operating: | 0°C to 40°C<br>Storage: -20°C to 60°C |
| Operating humidity: | 30%~80% |
| Tape width: | 12.65 mm |
| Tape speed: | 23.39 mm/sec |
| Recording and Playback time: | 180 min. with SE-180 |

| VIDEO | |
|---|---|
| Recording and Playback system: | Rotary four-head helical scanning system |
| Luminance: | FM recording |
| Colour: | Down converted direct recording |
| Video signal system: | PAL-type colour signal/PAL-type Y/C signal |
| Input (50-pin camera connector) | Y: 1.0 Vp-p, 75 ohms, unbalanced<br>C: 0.3 Vp-p (burst), 75 ohms, unbalanced |
| Output<br>Line: 1.0 Vp-p, 75 ohms, unbalanced | Y/C : Y : 1.0 Vp-p, 75 ohms, unbalanced<br>C : 0.3 Vp-p (burst), 75 ohms, unbalanced |
| Signal-to-noise ratio: | 45 dB (S-VHS)<br>45 dB (VHS) |
| Horizontal resolution: | 400 lines (S-VHS)<br>250 lines (VHS) |

| AUDIO | |
|---|---|
| Number of tracks: | 4 (Hi-Fi: 2/Normal: 2) |
| Input | Line: -60 dBs, 3 k-ohms, balanced (Hi-Fi/Normal)<br>Mic: +4 dBs, 10 k-ohms, balanced (Hi-Fi/Normal) |
| Output | Line: -6 dBs, low impedance, unbalanced (Hi-Fi/Normal)<br>Earphone: -60 to -12 dBs, 8 ohms<br>Speaker: 0.5 W, 8 ohms |
| Dynamic range: | More than 80 dB (Hi-Fi) |
| Frequency response: | 20 to 20,000 Hz (Hi-Fi) 50 to 12,000 Hz (Normal) |
| Signal-to-noise ratio: | 42 dB (NR-off, Normal) |
| Wow & flutter: | Less than 0.007% WRMS (Hi-Fi)<br>Less than 0.15% WRMS (Normal) |
| Provided accessory: | Camera handle x 1 |



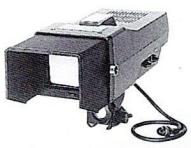

**SA-R200E**
Time Code Generator

All model numbers, specifications and prices are subject to change without notice.

# GY-X2BE Optional Accessories



**VF-P400E**
4" Viewfinder



**YH14x7.3K12U (CANON)**
14:1 Power Zoom Lens

**YH18x6.7K12U (CANON)**
18:1 Power Zoom Lens

**S14x7.5B12U (FUJINON)**
14:1 Power Zoom Lens

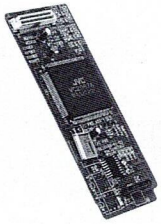
**S19x6.5B12U (FUJINON)**
19:1 Power Zoom Lens

**HZ-FM13U**
Focus Manual Control Unit for S18×6.7B12U and S14×7.5B12U

**HZ-FM15U**
Focus Manual Control Unit for YH14×7.3KRS and YH18×6.7K12U

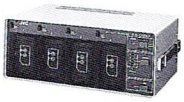
**HZ-ZS13BU**
Zoom Servo Control Unit for YH14×7.3K12U, YH18×6.7K12U, S18×6.7B12U and S14×7.5B12U

**SA-R200E**
Time Code Generator



**AA-P250E**
AC Power Adapter/ Charger and 5m DC Cable

**AA-G10E**
Battery Charger/ AC Power Adapter



**NB-G1U**
Ni-Cd Battery (2.2 Ah)

**MV-P612U/ MV-P616U**
Stereo/Super Directional Microphones

**KA-A30U** Mic Holder

**CB-P27U** Carrying Case

All model numbers, specifications and prices are subject to change without notice.

# BR-S800E/BR-S500E

S-VHS 625 VHS PAL

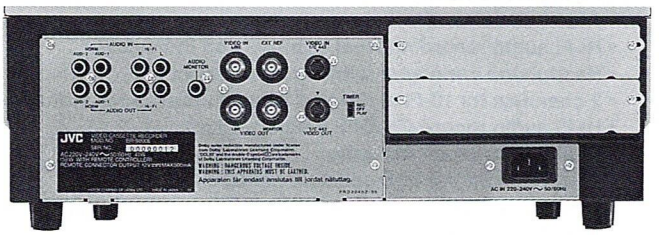


- **S-VHS recorder with editing recorder capability (BR-S800E) and S-VHS player with editing feeder capability**
- **High quality pictures by digital Y/C separator (BR-S800E)**
- **Open-ended system architecture with plug-in TC, DNR, RS-232C I/F and RS-422A I/F capability**
- **Menu Display and On-screen mode check**
- **±33 times normal speed search system with search dial**
- **Hi-Fi Stereo system with a dynamic range of more than 85 dB**
- **Two-channel normal audio with switchable Dolby B* noise reduction**
- **Two level meters switchable between Hi-Fi audio and normal audio**
- **Independent audio record level controls for four channels (BR-S800E)**
- **Six-Digit time counter for indication of either CTL Time-code and CTL data**
- **Provided CTL time-code generator/reader (BR-S800E)**
- **Provided CTL time-code reader (BR-S500E)**
- **Audio dubbing capability (BR-S800E)**
- **External timer playback/recording capability (BR-S800E)**
- **Automatic repeat playback and counter search capability**
- **Headphones jack with adjustable level output.**
- **External sync capability**
- **Wired remote control capability (RM-G30U)**
- **Automatic head cleaning mechanism**
- **Audio monitor output**
- **Two composite video signal outputs**
- **Heavy-duty mechanism**
- **19-inch EIA rack mount capability (4-unit)**

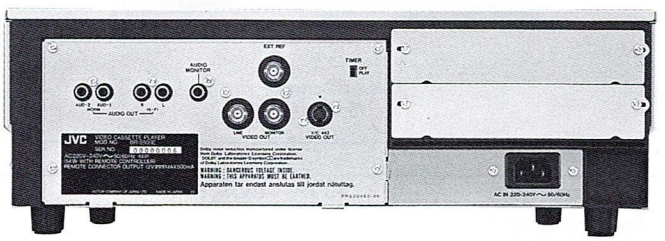
* A Y/C filtering technique incorporated under license from FAROUDJA Laboratories Inc.

* Dolby noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation. Dolby and the Double-D symbol DOLBY B NR are trademarks of Dolby Laboratories Licensing Corporation.

**Recorder**
**BR-S800E**



**Player**
**BR-S500E**



| GENERAL | |
|---|---|
| Format: VHS/S-VHS Europe standard | |
| Power requirement: AC 220 -240 V ~, 50/60 Hz | |
| Power consumption: | 49W (59W when using RM-G800U and BR-S800E)<br>44W (54W when using RM-G800U and BR-S500E) |
| Dimensions: 430 (W) × 130 (H) × 460 (D) mm | |
| Weight: 11.5 kg | |
| Operating temperature: +5°C to 40°C | |
| Storage temperature: -20°C ~ 60°C | |
| Operating humidity: | 30% to 80% |
| Tape speed: 23.39 mm/sec | |
| Recording/Playback time: Max. 120 min. (SP mode)<br>(BR-S800E) | Max. 360 min. (LP mode/PB only) with SE-180/E-180 |
| FF/REW time: | 2.5 min. with SE-180/E-180 |
| Search speed: | Dial search FWD/REV ×± 1/30 to × 33 |

| VIDEO | |
|---|---|
| Recording & playback: (BR-S800E)<br>Luminance:<br>Chrominance: | Rotary four-head, helical scan system<br>FM Recording<br>Phase shift, converted sub-carrier direct recording |
| Video signal system: | PAL-type colour signal/ PAL-type Y/C signal |
| Input (BR-S800E)<br>Line:<br><br>Y/C443 (4-pin): | <br>0.5 to 2.0 Vp-p, 75 ohms, unbalanced<br>Y: 0.5 to 2.0 Vp-pm 75 ohms, unbalanced<br>C: 0.3 Vp-p, 75 ohms, unbalanced (Burst) |
| Output<br>Line:<br><br>Y/C443 (4-pin): | <br>1.0 Vp-p, 75ohms, unbalanced<br>Y: 1.0 Vp-p, 75 ohms, unbalanced<br>C: 0.3 Vp-p, 75 ohms, unbalanced (Burst) |
| Signal to noise ratio: | More than 45 dB (S-VHS SP)<br>More than 45 dB (VHS SP) |
| Horizontal resolution: | More than 400 lines (S-VHS-SP)<br>More than 240 lines (VHS SP) |
| External sync input: | 0.5 to 4.0 Vp-p, 75 ohms, unbalanced |

| AUDIO | |
|---|---|
| Input (BR-S800E)<br>Line:<br>Mic: | <br>-6 dB, 10 kohms, unbalanced<br>-67 dB, 3 kohms, unbalanced |
| Output<br>Line:<br>Monitor: | <br>-6 dB, 1 kohms, unbalanced<br>-6 dB, 1 kohms, unbalanced |
| Headphones: | -∞ to -20 dB, 8 ohms, unbalanced |
| Signal to noise ratio: | 40 dB (NR:OFF/SP mode) |
| Dynamic range: | 85 dB (Hi-Fi) |
| Frequency response: | 50 to 10,000 Hz (Normal)<br>20 to 20,000 Hz (Hi-Fi) |
| Wow and flutter: | Less than 0.25% RMS (Normal)<br>Less than 0.006% (Hi-Fi) |

All model numbers, specifications and prices are subject to change without notice.

# Editing Recorder/Player

## SR-S388E

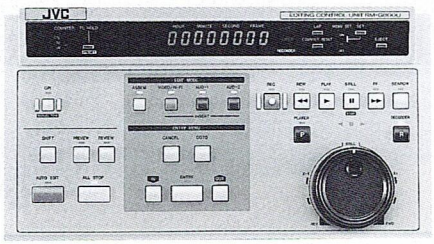
S-VHS VHS PAL 625



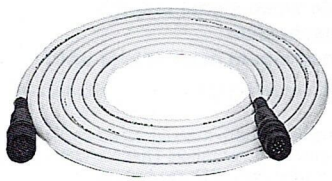
- **Easy-to-use editing recorder with high-quality S-VHS pictures and Hi-Fi audio sound**
- **Jog/Shuttle search**
- **Economical Editing with the proven RM-G800U***
- **Random Assemble Editing function**
- **CTL Time Code System**
- **Provided RS-232C remote function**
- **Audio dubbing function and self audio dubbing function**
- **On-screen menu setup**
- **Other Features**
  - **Fiying erase head**
  - **Auto head cleaner**
  - **Hi-Fi audio recording level controls and indicators**
  - **Headphone connector with volume control**
  - **2 channels for Hi-Fi audio and 1 linear channel for monaural**
  - **Hi-Fi audio record ON/OFF (menu switch)**
  - **Digital hour meter indication**
  - **Wired remote control (optional RM-G30U)**

* A Y/C filtering technique incorporated under license from FAROUDJA Laboratories Inc.

### OPTIONAL ACCESSORIES




Cuts Edit Controller
RM-G800U



VC-G8030U Extension Editing Cable

| GENERAL | |
|---|---|
| Power requirement | AC 220 V-240 V, 50/60 Hz |
| Power consumption | 22 W |
| Temperature | Operating: 5°C to 40°C(41°F to 104°F)<br>Storage: –20°C to 60°C(–4°F to 140°F) |
| Humidity | Operating: 35% to 80%<br>Storage: 5% to 80% |
| Operating position | Horizontal only |
| Dimensions | 400 (W) × 94 (H) × 340 (D) mm<br>(15-5/8" × 3-3/4" × 13-7/16") |
| Weight: | 5 kg (10.6 lbs.) |
| Format: | VHS/S-VHS standard |
| Tape width | 12.65 mm |
| Tape speed | (SP): 23.39 mm/sec<br>(LP): 11.70 mm/sec |
| Maximum recording time | (SP): 3 hours with SE-180 video cassette<br>(LP): 6 hours with SE-180 video cassette |
| Rewind/fast-forward time | Approx. 2 minutes, with SE-180 video cassette |
| **VIDEO** | |
| Signal system | PAL-type colour signal/PAL-type Y/C signal |
| Recording system | Rotary two head helical scan system<br>Luminance: FM recording<br>Colour: Down-covered direct recording |
| Input | Line: 0.5 to 2.0 Vp-p 75 ohms, unbalanced<br>Y/C: Y: 1.0 Vp-p, 75 ohms, unbalanced<br>C: 0.3 Vp-p, 75ohms, unbalanced<br>(Burst) |
| Output | Line: 1.0 Vp-p, 75 ohms, unbalanced<br>Y/C: Y: 1.0 Vp-p, 75 ohms, unbalanced<br>C: 0.3 Vp-p, 75 ohms, unbalanced<br>(Burst) |
| Signal-to-noise ratio | 43 dB or more (S-VHS and SP modes) |
| Horizontal resolution | 400 lines (S-VHS)<br>240 lines (VHS) |
| **AUDIO** | |
| Recording system | 2 Hi-Fi tracks/monaural longitudinal track |
| Input | Line: –8 dBs, 50 k-ohms, unbalanced |
| Output | Line: –8 dBs, 1 k-ohm, unbalanced<br>Phones: Variable, 40 ohms, unbalanced, ø3.5, –11 dBs (max) |
| Frequency response | 20 Hz to 20 kHz (Hi-Fi)<br>100 Hz to 10 kHz (Normal, SP mode) |
| Dynamic range | 85 dB or more (Hi-Fi) |
| Wow & flutter | 0.006% WRMS or less (Hi-Fi)<br>0.30% RMS or less (Normal, SP mode) |
| **ACCESSORY** | |
| Provided | Y/C cable × 1 |



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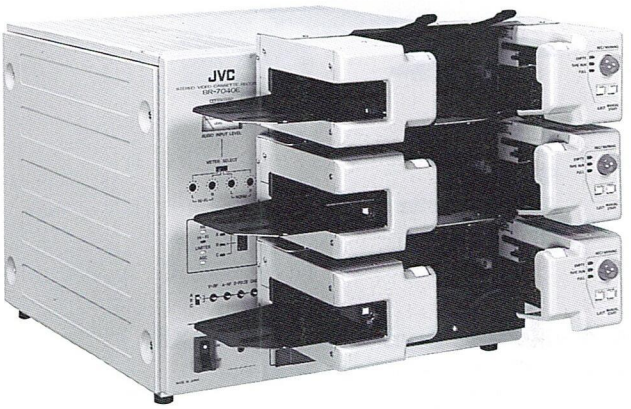
# BR-7050EH

**REC ONLY**

**Remote Controller Required**

- **3-in-1 design for optimum cost/performance**
  - **Records simultaneously on three tapes without distribution amplifier**
  - **One BR-7050EH consumes only half the power of three single-mechanism recorders**
- **Simultaneous multi-unit operation via serial remote control**
- **Force-records cassettes whose erasure prevention tabs have been removed**
- **A large VU meter enables easy adjustment of input audio levels**
- **All four audio recording level controls can be adjusted**
- **The BR-7050EH incorporates a sophisticated self-diagnosis system**
- **Whenever a cassette is loaded or unloaded, the head cleaning mechanism automatically cleans the video and Hi-Fi audio heads to prevent head clogging and ensure optimum recording performance**
- **The SA-K723U and the VC-G723U cable allow independent adjustment of each mechanism: remote control, ID code assignment/reading, hour meter resetting/reading, automatic video head recording current adjustment and normal audio recording level correction**
- **ID code generator records 8-digit ID numbers on the tape's control track, making it easy to identify the recording unit and correct problems**
- **Once the normal audio recording level has been set on the BR-7050EH, it can be adjusted independently for each mechanism**




SA-L30U auto cassette loader required
(3 units necessary for operation, ordered separately)

| GENERAL | |
|---|---|
| Format | VHS PAL/SECAM |
| Tape width | 12.65 mm (1/2 inch) |
| Tape speed | 23.39 mm/sec. |
| Recording time | 180 minutes (with E-180 cassette) |
| Fast forward/rewind time | Less than 3 minutes (with E-180 cassette) |
| Power requirements | AC 220-240 V, 50/60 Hz |
| Power consumption | 63 W, 73 W, when using loaders |
| Dimensions | 430 (W) x 345 (H) x 485 (D) mm<br>431 (W) x 395 (H) x 651 (D) mm (with loaders)<br>464 (W) x 395 (H) x 651 (D) mm (with cassettes in loaders) |
| Weight | 27 kg (59.6 lbs.)<br>33 kg (with three loaders) (72.8 lbs.) |
| Operating temperature | 5°C to 40°C (41°F to 104°F) |
| Operating humidity | 30% to 80% RH |
| Storage temperature | -20°C to 60°C (-4°F to 140°F) |
| **VIDEO** | |
| Recording system | Luminance:FM recording<br>Colour:Down-converted direct recording |
| Video signal system | PAL-type colour signal |
| Signal input | 0.5 to 2.0 Vp-p, 75 ohms, unbalanced |
| Horizontal resolution | 240 lines (colour PAL)/230 lines (colour SECAM) |
| Video S/N | 43 dB (colour)/45 dB (monochrome) (PAL/SECAM) |

| AUDIO | |
|---|---|
| Number of tracks | 4 (Hi-Fi: 2, normal: 2) |
| Line input | -6 dBs, 10 kohms, unbalanced (Hi-Fi, normal), RCA |
| Frequency response | 20 Hz to 20 kHz (Hi-Fi)<br>40 Hz to 12 kHz (normal) |
| Dynamic range | 87 dB (Hi-Fi) |
| Audio S/N | 44 dB, distortion level of 3% (normal) |
| Wow and flutter | Less than 0.008% WRMS (Hi-Fi)<br>Less than 0.15% WRMS (normal) |
| **ACCESSORIES** | |
| Provided accessories | Power cable x 1<br>Lock screw (L) x 3<br>Lock screw (S) x 3<br>Stay x 1<br>(3 units and accessories are packed in one carton together with one replacement systems control board) |

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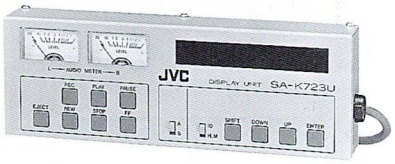
# Duplicator Accessories

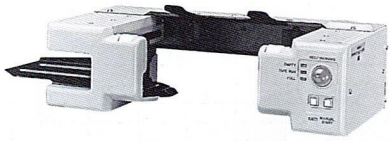





**SA-K723U**
**Multi-Display Unit**
for BR-7050EH

**VC-G723U**
**Cable for SA-K723U and BR-7040EDB**
with SA-7040EH unit

**RM-G30U**
**Serial Remote Control Unit**
Control up to 10 × BR-7050EH



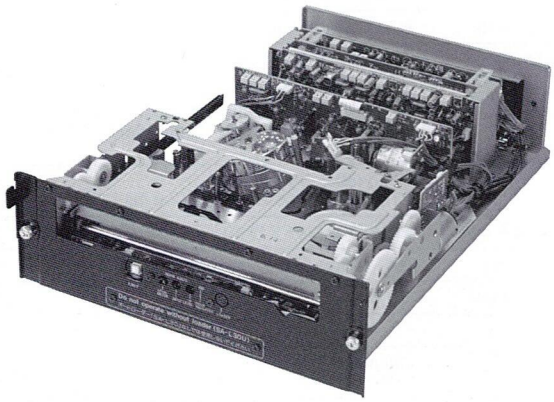
**SA-L30U**
**Auto Cassette Loader**
for BR-7050EH

## 3-in-1 Hi-Fi VHS Duplicator Upgrade Kit SA-K7040EH (mechanism unit)

- **JVC's newly developed replacement drawer to upgrade your BR-7040 series VHS duplicator to the specifications of the all-new BR-7050**
- **Tougher-than-ever recorder section with rugged direct drive reel motor**
- **Aluminum diecast mechanism for stable tape running and trouble-free operation**
- **Easy-to-remove non-soldered upper drum speeds up maintenance and extends maintenance term**
- **Video head recording current automatic adjustment function dramatically reduces downtime**

**Notes:**

- **This is an upgrade unit for BR-7040EDB/BR-7040ED and requires a new operation board. So, 3 SA-K7040EH units are packed with operation board in one carton box as a kit. When you need to upgrade, please order this kit.**
- **Specifications are the same as the BR-7050EH.**





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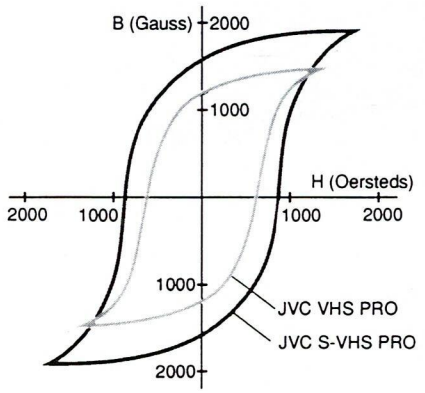
# SE-180PRO/SE-120PRO/SE-60PRO/SE-30PRO

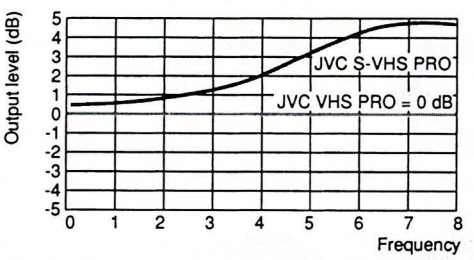
- **Ultra-fine magnetic particles from 0.15 microns to 0.14 microns for much higher packing density and increased output level not only in the high frequencies but throughout the entire frequency range**
- **Two-step orientation technology applied to the magnetic particles**
- **3-dimensional flex binder structure used in the manufacture of broadcast video metal tape**
- **Backcoating of high-performance carbon**
- **Electrical resistance on the tape surface reduced and stringent quality control applied at the every stage of the production process to produce tape that is virtually free of dropouts**
- **Shockproof cassette shell and hard case**

| Items | S-VHS PRO tape |
|---|---|
| Dimensions | |
| Tape thickness | 18.0 µm |
| Base film thickness | 14.0 µm |
| Magnetic coating thickness | 3.4 µm |
| Backcoating thickness | 0.5 µm |
| Undercoating thickness | 0.1 µm |
| Tape width | 12.650 mm |
| Tape width variations | 2.0 µm |
| Magnetic properties | |
| Coercivity (Hc) | 820 Oe |
| Residual flux density (Br) | 1550 Gauss |
| Squareness ratio | 0.87 |
| Physical properties | |
| Yield strength | 2.6 kg |

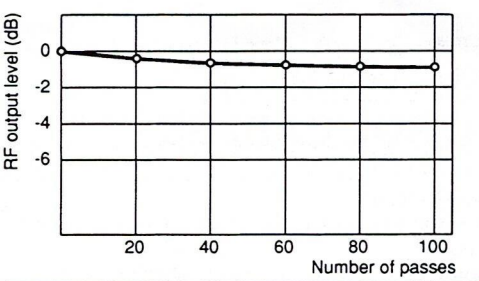
**Hysteresis curve**




**Video frequency response**

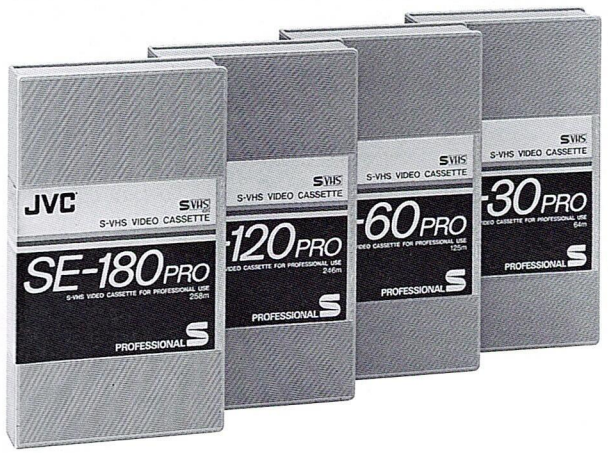



**RF output variations due to repeated plays**

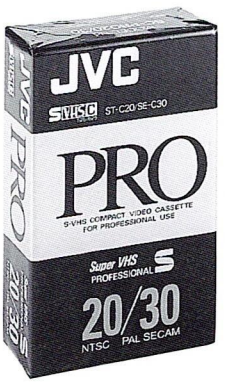



## S-VHS TAPES

**SE-30 PRO SE-60 PRO SE-120 PRO SE-180 PRO**




**SE-C20/30 PRO**

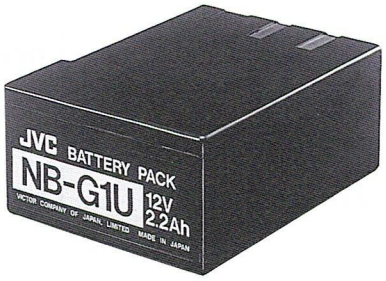


# S-VHS Optional Accessories



S-VHS 625 VHS PAL

**AA-G10E**
AC adapter/battery charger
Charges X4 NB-G1U battery packs




**NB-G1U**
Rechargeable battery for BR-S422E/ GY-X2BE/GY-X3E/BR-DV10E/BR-D40E and TM-600PN monitor (2.2 AH)

**RM-G30U**
Remote control unit

## S-VHS CABLES

VC-G1050U

VC-G1035U

VC-G1025U

VC-G1015U

VC-G2050U

VC-G3030U

VC-G30U

VC-G50U

| Model No. | Description | Length |
|---|---|---|
| **VC-G1015U**<br>**VC-G1025U**<br>**VC-G1035U**<br>**VC-G1050U** | 7-pin male to 7-pin female (Y/C cable) | 1.5 m (4.75 ft)<br>2.5 m (8 ft)<br>3.5 m (11 ft)<br>5.0 m (16 ft) |
| **VC-G30U**<br>**VC-G50U** | 4-pin S-connector to 4-pin S-connector (Y/C cable) | 3.0 m (9.75 ft)<br>5.0 m (16 ft) |
| **VC-G2030U**<br>**VC-G2050U** | 7-pin male to 4-pin S-connector (Y/C cable) | 3.0 m (9.75 ft)<br>5.0 m (16 ft) |
| **VC-G3030U** | 4-pin S-connector to 7-pin female (Y/C cable) | 3.0 m (9.75 ft) |
| **CONTROL CABLES** | | |
| **VC-G7050U** | 45-pin male to 45-pin female Remote control cable | 5.0 m (16 ft) |
| **VC-G8030U** | 12-pin to 12-pin connectors Extension cable | 3m (9.75 ft) |
| **VC-G9050U** | 9-pin male to 9-pin female Remote control cable | 5.0 m (16 ft) |

## CONTROL CABLES

VC-G7050U

VC-G8030U

VC-G9050U

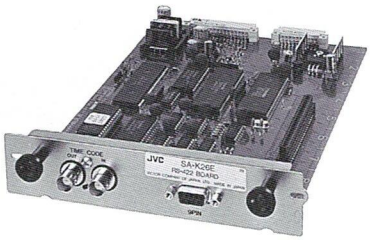


All model numbers, specifications and prices are subject to change without notice.

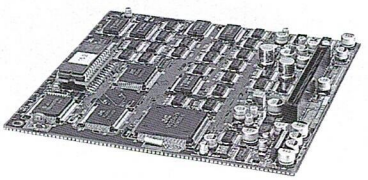
# S-VHS Optional Accessories

S-VHS 625 VHS PAL

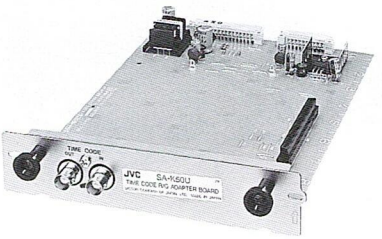




**SA-K26E**
RS-422 Interface Board
for BR-S800E series

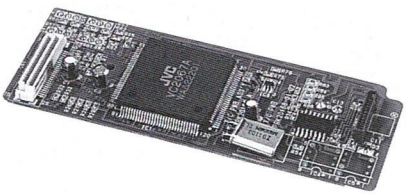


**SA-R50E**
EBU Time Code
Generator/Reader Board
for BR-S800E series



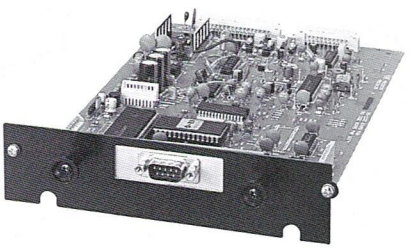
**SA-K50U**
SA-R50U Adapter Board
for BR-S800E series

**SA-N50E**
Digital Noise Reducer Board
for BR-S800E series



**SA-R200E**
TC Generator
for BR-S422E and GY-X2BE

**SA-K65U**
Rack Mount Kit
for BR-S800E series

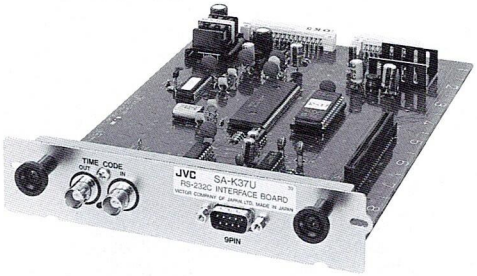


**SA-K27EA**
**RS-232C Remote Board**
for BR-S800E and BR-S500E

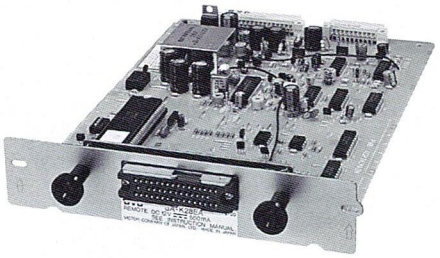
# S-VHS Optional Accessories

S-VHS 625 VHS PAL






**SA-K37E**
**RS-232C Control I/F Board**
for BR-S800E and BR-S500E



**SA-K28EA**
**45-pin Remote Board**
for BR-S800E and BR-S500E



All model numbers, specifications and prices are subject to change without notice.

# Post Production



Editing Controllers
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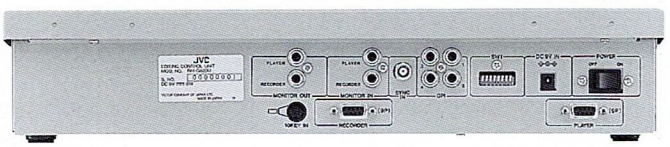
# Pre-read Editing Control Unit

# RM-G820E



- **Controls D-9 Pre-Read: A/B Roll Editing and Layering Using Only Two Machines**
- **RS-422A Interface**
- **Multi-Event Editing Max. 99 events with Renumber and Ripple (EDL manage) function**
- **Variable Motion Control (VMC) editing and Motion Memory Editing (Max. 7 events) with D-9**
- **Time Code (EBU LTC & VITC) and CTL Based Editing Capability**
- **Audio Split Editing**
- **Four Variable Timing GPI (General Purpose Interface) Outputs**
- **Audio Monitor Level Control**
- **Multi Purpose LCD display**

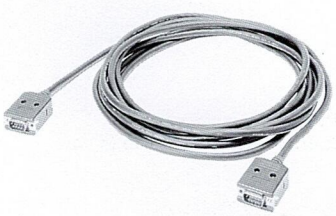


| | |
|---|---|
| Power requirement: | DC 9 V |
| Power consumption: | 8 W |
| Weight: | 4.8 kg (10.6 lbs) |
| Dimensions (W × H × D): | 430 × 99 × 311 mm |
| Operating temperature: | 5°C to 40°C |
| Storage temperature: | -20°C to 60°C |
| Operating humidity: | 30% to 80% |
| VCR control functions: | PLAY, FF, REW, STOP, PAUSE/STILL, SHUTTLE SEARCH, JOG, EJECT, REC EE, REC |
| Editing control functions: | Edit modes: Assemble and insert |
| Reference signals: | EBU time code, CTL time code or CTL pulse |
| Capstan bump: | ON/OFF (independent) |
| Editing accuracy: | Timecode-referenced in capstan bump mode: ±0 frame (depending on VCR)<br>CTL-referenced in capstan bump mode: ±2 frames (depending on VCR) |
| Memory capacity: | 99 events |

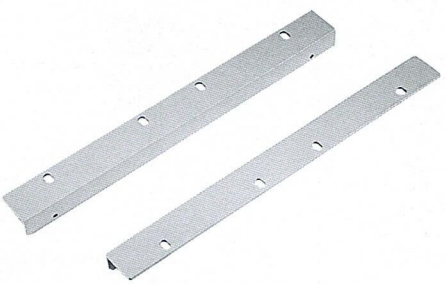
| | |
|---|---|
| VCR interface: | RS-422A (9-pin) |
| Preroll time: | 5, 7 or 10 sec. |
| Number of VCRs controllable: | 1 player and 1 recorder |
| Time counter | |
| Counter reading display: | Up to 23 hours, 59 minutes, 59 seconds, 24 frames (TC/CTL 24-hour display) from –9 hours to 9 hours, 59 minutes, 59 seconds, 24 frames (CTL 10-hour display) |
| Total programme time display: | Maximum 11 hours, 59 minutes, 59 seconds, 24 frames |
| Accessories: | AC adaptor, Power cord |

## Optional Accessories

**VC-G9050U**
9-pin Remote Control Cable (5m/16 ft.)



**SA-K66U**
Rack Mount Adapter



**SA-K80U**
10 Numerical/Function Keypad

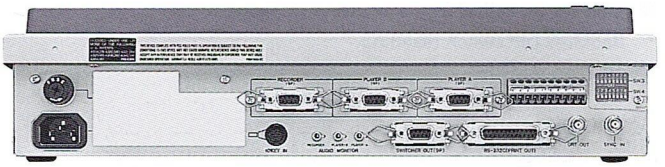
All model numbers, specifications and prices are subject to change without notice.

# A/B Roll Editing Controller

# RM-G870E



- **Multi-event editing up to 127 events**
- **RS-422 control A/B roll editing with two feeders**
- **On-screen EDL display**
- **Capability of variable motion control**
- **Independent search/jog dials for players and recorder**
- **Audio split editing**
- **GPI ports and RS-422A switcher interface for connection and control of external equipment**
- **AUX1/AUX2 editing capability**
- **Variable preroll times with selectable capstan bump function**
- **Three 8-digit time counters**
- **Time code editing capability**
- **Audio monitor level adjustment**
- **First Edit function**
- **Preview and review functions**
- **Go-To function (can operate all three VCRs simultaneously)**
- **Edit point trim and cancel**
- **Comprehensive on-screen menu**
- **ALL STOP button**
- **Memory backup for editing data**
- **RS-232C printer interface**



| | |
|---|---|
| Power requirement: | 220-240 V AC, 50/60 Hz |
| Power consumption: | 24 W |
| Weight: | 4.8 kg |
| Dimensions: | 430 (W) × 99 (H) × 311 (D) mm |
| Operating temperature: | 0°C to 40°C |
| Storage temperature: | –20°C to 60°C |
| VTR control functions: | PLAY, FF, REW, STOP, PAUSE/STILL, SHUTTLE SEARCH, REC EE, JOG, EJECT, REC |
| Editing control functions: | Edit modes: Assemble and insert |
| Reference signals: | EBU time code or CTL pulse |
| Capstan bump: | ON/OFF |

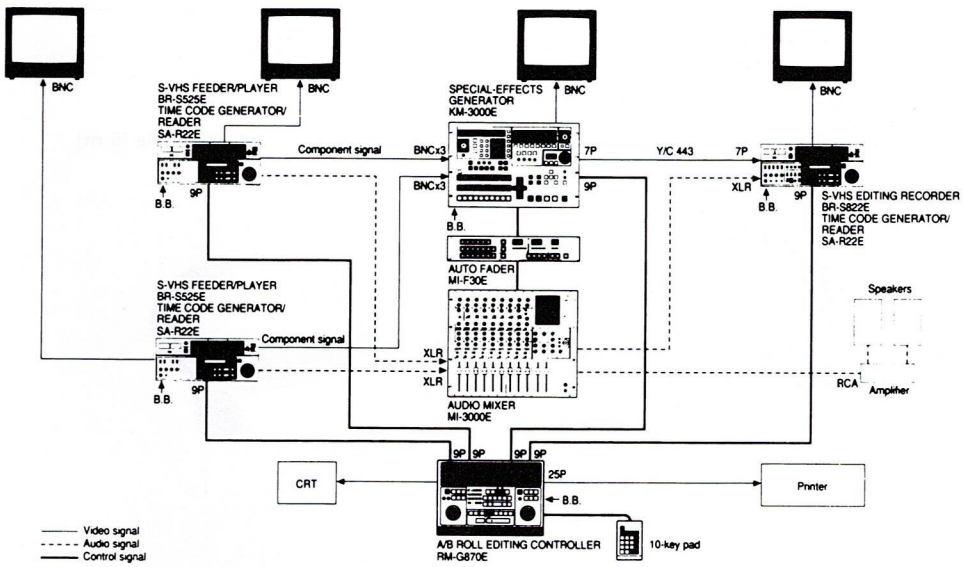
Editing accuracy:
Timecode-referenced in capstan bump mode: ±0 frame (depending on VTR)
CTL-referenced in capstan bump mode: ±2 frames (depending on VTR)

| | |
|---|---|
| Memory capacity: | 127 events |
| VTR interface: | 9-pin (RS-422A) |
| Number of VTR's controllable: | 2 players and 1 recorder |

Time counter:
Counter reading display: Up to 23 hours, 59 minutes, 59 seconds, 24 frames (TC/CTL 24-hour display) from -9 hours to 9 hours, 59 minutes, 59 seconds, 24 frames (CTL 10-hour display)
Total programme time display: Maximum 11 hours, 59 minutes, 59 seconds, 24 frames

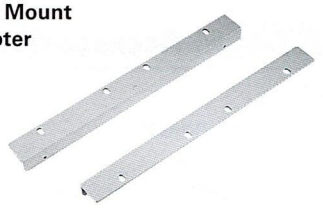
| | |
|---|---|
| Standard accessories: | SA-K80U 10-key pad × 1, Audio monitor cable × 3 |

## VMC-Capable Professional S A/B Roll Multi-Event Editing System




## Optional Accessories

**SA-K66U**
**Rack Mount Adapter**



**VC-G9050U**
**9-pin Remote Control Cable** (5 m)

All model numbers, specifications and prices are subject to change without notice.

JVC PROFESSIONAL

# A/B Roll Editing Controller

# RM-G860E



- **A/B roll editing with two feeders**
- **Independent search/jog dials for players and recorder**
- **Serial RS-422A and parallel 45-pin remote control interfaces**
- **Time-code-reference editing**
- **Three 8-digit time counters**
- **Time counter and last-edit memory**
- **Two GPI ports for control of external equipment**
- **Variable pre-roll times (3, 5, 7, and 10* seconds) with selectable capstan bump function**
- **Preview function**
- **Review function with selectable out-point-only capability (cut editing only)**
- **Go-To function (can operate all three VCRs simultaneously)**
- **Edit point trim and cancel**
- **Auto and Run Edit modes**
  **AUX mode for independent recorder operation when editing from and external source**
- **ALL STOP button**
- **Can be installed in a standard 19" rack**

* Requires DIP switch resetting.

| | |
|---|---|
| Power: | AC 220 – 240 V ~ 50/60 Hz |
| Power consumption: | 24 W |
| Weight: | 4.8 kg. |
| Dimensions: | 430 (W) × 99 (H) × 311 (D) mm |
| Operating temperature: | 0°C to 40°C |
| Storage temperature: | –20°C to 60°C |

Connectors:
AC IN: 3-lead
SYNC: BNC
Composite sync 0.2 to 5.0 Vp-p
Composite video 0.5 to 2.0 Vp-p, 75 ohms, negative sync, unbalanced
Video switcher: harmonica connector
Audio mixer: harmonica connector
VTR interface: RS-422A (9-pin) or 45-pin (parallel)

VTR control functions: PLAY, FF, REW, STOP, PAUSE/STILL, SHUTTLE, SEARCH, REC EE, JOG, EJECT, REC, EDIT (recorder side only)

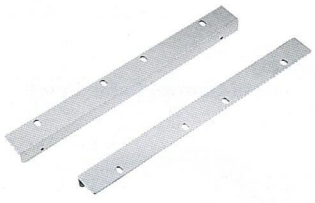
Applicable VTRS:
As players
KR-M840E/KR-M820E/ KR-M800E/KR-M545E/ KR-M540E/PR-M900E/ PR-600E — Direct
BR-S811/BR-S611E/ BR-S810E/BR-S610E — Direct or via SA-F911E
As recorders
KR-M840E/KR-M820E/ KR-M800E/PR-900E — Direct
BR-S811E/BR-S810E — Direct or via SA-F911E

Editing control functions
Edit modes: Assemble and Insert
Ref. signals: EBU time code or CTL pulse
Capstan bump: ON/OFF
Editing accuracy: Timecode-referenced in capstan bump mode: ± 0 frame (depending on VTR)
CTL-referenced in capstan bump mode: ± 2 frames (depending on VTR)

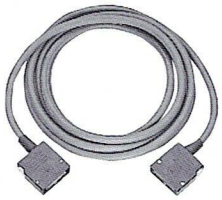
Time counter: Counter reading display: up to 23 hours, 59 minutes, 59 seconds, 24 frames (TC/CTL 24-hour display) from –9 hours to 9 hours, 59 minutes, 59 seconds, 24 frames (CTL 10-hour display)
Total programme time display: Maximum 11 hours, 59 minutes, 59 seconds, 24 frames

## Optional Accessories

**SA-K66U**
**Rack Mount Adapter**



**VC-G7050U**
**45-pin Remote Control Cable (5 m)**



**VC-G9050U**
**9-pin Remote Control Cable (5 m)**

All model numbers, specifications and prices are subject to change without notice.

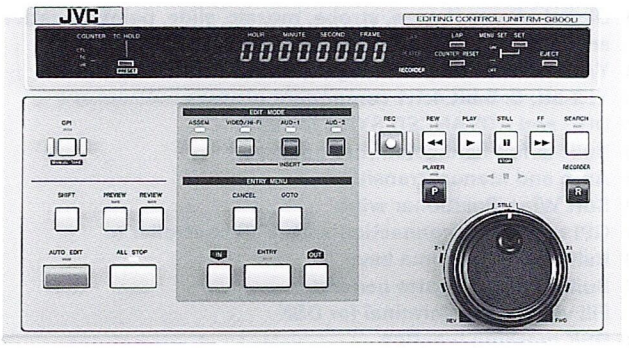
# Cuts Editing Controller

# RM-G800U



- **Compact and light weight editing control unit**
- **JVC original control bus interface**
- **For BR-S800E, BR-S500E, SR-S388E and BR-DV600E**
- **Two GPI ports for control of external equipment**
- **One JOG/SHUTTLE dial and large buttons for easy operation**
- **One 8-digit LED counter**
- **PREVIEW/REVIEW/GO-TO function**
- **ENTRY POINT CANCEL capability**
- **CTL and time code reference editing**
- **Lap time counter**
- **Manual take function**

**Note:** The following functions are not available when using the RM-G800U in combination with the SR-S388E: timecode editing, Audio-2 insert editing, capstan bump functions, and preview editing.

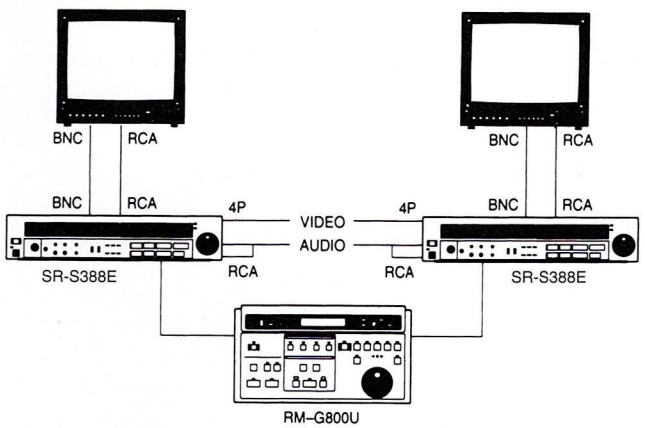


| GENERAL |
|---|
| Power requirement: DC 12 V supplied from VTR |
| Dimensions: 330 (W) × 79 (H) × 182 (D) mm |
| Weight: 1.2 kg |
| Operating temperature: +5°C + 50°C (41°F ~ 104°F) |
| Storage temperature: –20°C ~ + 60°C (–4°F ~ 140°F) |
| Operating humidity: 30% to 80% |
| Storage humidity: 10% to 90% |
| Counter display: 8-digit (LED) |
| VCR control: PLAY, REC (Recorder only), STOP, REW, FF, JOG, PAUSE/STILL, COUNTER RESET, EJECT |
| Editing modes: ASSEMBLY, VIDEO INSERT, AUDIO INSERT, GO TO, REVIEW, SHIFT |

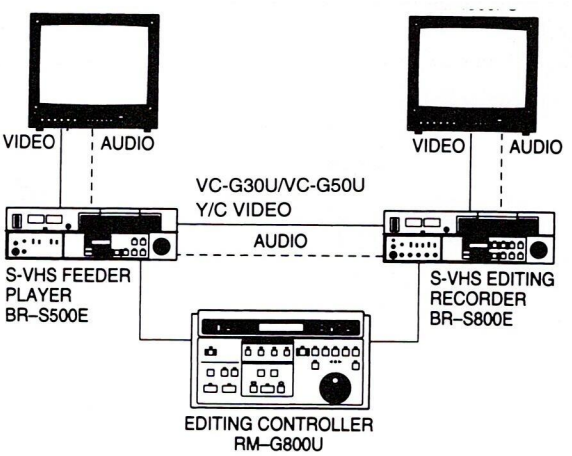
## Optional Accessories

**VC-G8030U (12-pin - 12-pin) (3 m)**
**Extention Cable**

### Cuts-only Editing




### Cuts-only Editing




All model numbers, specifications and prices are subject to change without notice.

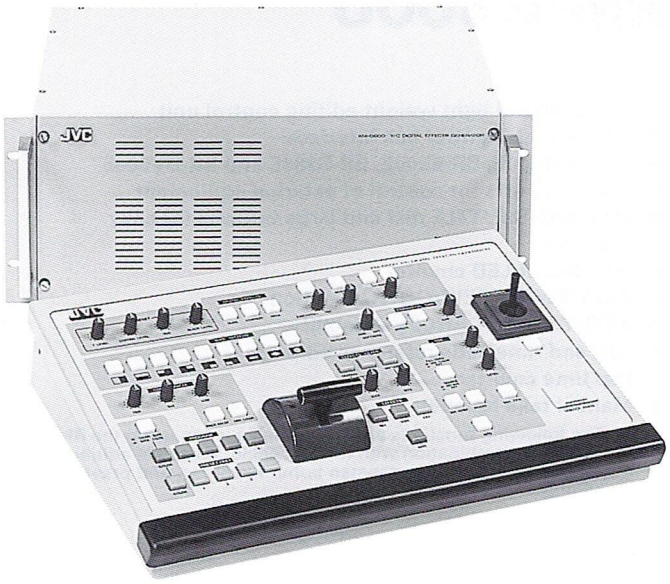
JVC PROFESSIONAL

# Y/C Digital Effects Generator

## KM-D600E



- **Digital effects (freeze, strobe, mosaic, slide, paint, negative and compression) with built-in dual channel TBC**
- **Y/C 443 and composite signals can be input**
- **Y; 8-bit, C: 8-bit 4:1:1 component process**
- **DOC and ADVANCED SYNC for VTR**
- **Built-in full-field colour bar generator**
- **Auto and manual transition**
- **Soft Wipe/Positioner wipe**
- **GPI control for connection with VTR controller**
- **Built-in RGB chroma key**
- **Built-in colour matte generator**
- **Fill video input terminal for DSK**
- **DSK masking function**
- **Y, C and black levels and hue can be preset**



| INPUT SIGNALS | |
|---|---|
| Video inputs: | Y/C 443: 4 inputs, Y: 1.0 Vp-p (with Sync)<br>0.3 Vp-p (Burst level), 75 ohms (7-pin x 4)<br>VBS: 4 inputs, 1.0 Vp-p, 75 ohms (BNC x 4) |
| Genlock inputs: | BB: 0.45 Vp-p, 75 ohms or high impedance (BNC x 2) |
| Chroma key inputs | RGB: 0.7 Vp-p, 75 ohms (BNC x 3) |
| DSK key input | VS or VBS: 0.7/1.0 Vp-p, 75 ohms (BNC x 1) |
| DSK fill inputs | RGB: 0.7 Vp-p, 75 ohms (BNC x 3) |
| DOC | 0.2–1.0 Vp-p, 75 ohms (BNC x 2) |
| GPI | Dry contact (Terminal) |
| **OUTPUT SIGNALS** | |
| Programme outputs | Y/C 443: 2 outputs, Y; 1.0 Vp-p (with Sync)<br>C: 0.3 Vp-p, (Burst level), 75 ohms (7-pin x 2) |
| Preview output | Y/C 443: Y: 1.0 Vp-p, (with Sync)<br>C: 0.3 Vp-p (Burst level), 75 ohms (7-pin x 1) |
| Programme VBS output | 1.0 Vp-p, 75 ohms (BNC x 1) |
| Preview VBS output | 1.0 Vp-p, 75 ohms (BNC x 1) |
| Tally output | +5V or dry contact (Terminal) |

| SYNC OUTPUT SIGNALS | |
|---|---|
| BB | 0.45 Vp-p, 75 ohms (BNC x 2) |
| HD | 4.0 Vp-p, 75 ohms (BNC x 1) |
| VD | 4.0 Vp-p, 75 ohms (BNC x 1) |
| REF sync | 4.0 Vp-p, 75 ohms (BNC x 1) |
| ADV sync | 4.0 Vp-p, 75 ohms (BNC x 2) |
| **PERFORMANCE** | |
| Frequency response | 60 Hz – 5.0 MHz (+0.5 dB, –3 dB) |
| S/N ratio | More than 55 dB (P-P/RMS) |
| Y/C timing | Less than 50 nsec. |
| Power consumption | Main unit 70 W<br>Control unit 12 W |
| Power supply | 220/240 V AC, 50/60 Hz |
| Ambient temperature range | 5°C – 40°C (40°F – 104°F) |
| Dimensions (WHD) | Main unit : 482 x 410 x 180.5 mm<br>Control unit : 482 x 310 x 87.6 mm |
| Weight | Main unit : 13.6 kg<br>Control unit : 4.5 kg |



All model numbers, specifications and prices are subject to change without notice.

# 10-Channel Audio Mixer MI-3000E

- **8 Monaural channels plus a set of stereo channels**
- **Built-in VCA (Voltage-Controlled Amplifier) can be controlled by the MI-F30E**
- **EIA rack mountable**
- **3-band equalizer for each channel (low, mid and high)**
- **Trim control (ch 1 to 8)**
- **100 mm scale ultra-smooth fader control)**

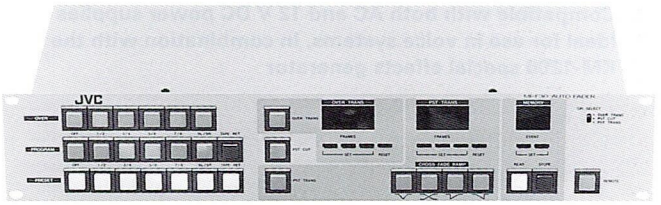
**Input signals**
Ch-1–8: Monaural, A/B switchable
A Input: –60/–40/+4 dB, more than 5 k-ohms, balanced (XLR-3-31)
B Input: (Ch 1–4) + 4 dB, more than 5 k-ohms balanced (XLR-3-31)
(Ch 5–8): –20 dB, more than 10 k-ohms, unbalanced, (RCA)
Equalizer: Low: 100 Hz ± 15 dB, shelving
Mid: 150 Hz-7 kHz ± 15 dB, peaking
High; 10 kHz ± 15 dB, shelving
Ch 9: Stereo, line/phono switchable
Line: –20/+4 dB, 10 k-ohms, unbalanced (RCA)
Phono: –54 dB, 1 kHz, more than 50 k-ohms, unbalanced (RCA)
Aux (1, 2): + 4 dB, 10 k-ohms, balanced, (XLR-3-31) or unbalanced, (RCA)
Ext Ret (L, R): + 4 dB, 10 k-ohms, balanced (XLR-3-31)
Talk Back Mic: –70 dB, 600 ohms, balanced (XLR-3-31)

**Output signals**
Master (L, R): + 4 dB, 600 ohms, balanced (XLR-3-32)
+ 4 dB, 10 k-ohms, unbalanced (RCA)
Aux (1/2): + 4 dB, 10 k-ohms, unbalanced (RCA)
Monitor (L/R): + 4 dB, 10 k-ohms, unbalanced, (RCA)
Head Phones (L/R): 16–600 ohms, max. 100 mW at 16 ohms (stereo phono jack)
Aux Meter: Master (L/R): + 4 dB, 10 k-ohms (9-pin, d-sub)
Monitor (L/R): + 4 dB, 10 k-ohms (9-pin, d-sub)
Oscillator: 10 k-ohms (9-pin d-sub)

Frequency response: 20 Hz – 20 kHz + 0/–2 dB

| | |
|---|---|
| THD: output) | Less than 0.08% (20 Hz–20 kHz at –20 dB |
| Equivalent input noise: IHF-A) | Less than –128 dB (weighting according to |
| Residual noise: IHF-A) | Less than –90 dB (weighting according to |
| IHF-A) | Less than – 75 dB (weighting according to |
| Cross talk: | Less than –70 dB (1 kHz) |
| Oscillator: | 400 Hz, 7 kHz sine wave |
| Power supply: | 220/240 V AC, 50/60 Hz |
| Dimensions: | 482 (W) x 115 (H) x 399 (D) mm |
| Weight: | 12.5 kg |

# Auto Fader Unit MI-F30E

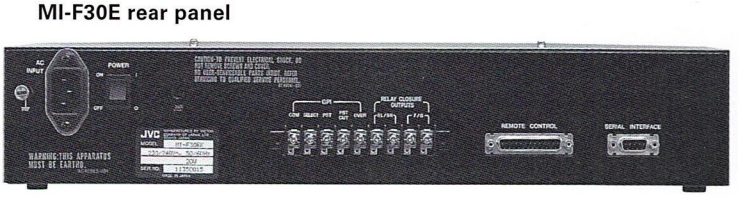


- **Enhanced interface flexibility (RS422, RS232C and three GPIs)**
- **Four different transition patterns, with possible transition rates #999 frames ( ⋁ ⋋ ⋁ ⋀ )**
- **100 event memory**
- **EIA rack mountable**

| | |
|---|---|
| Cross point: | 3-bus matrix type (over, programme, preset) |
| Channel control: | 2-channel gang operation (1/2, 3/4, 5/6, 7/8, 9L/9R) |
| Transition rates: | 0 –999 frames (over, preset) |
| Transition pattern: | 4 patterns (V Cut, Cross Fade, Cut Fade, Fade-Cut) ⋁ ⋋ ⋁ ⋀ |
| Event memory: | 100 memories (cross point, transition pattern, transition rate) |
| Serial interface: | RS-422 or RS-232C |
| GPI: | 3 modes (over transition, preset transition, preset cut) |
| Power supply: | 220/240 V AC, 50/60 Hz |
| Dimensions: | 482 (W) x 88 (H) x 180 (D) mm |
| Weight: | 5.5 kg |

**MI-3000E rear panel**

**MI-F30E rear panel**



# Professional Audio Mixer

# MI-1200E



- **10-channel rack-mount audio mixer**
- **Large slide control for easy operation**
- **5-LED level meter display**
- **XLR-type 3-pin microphone connectors**
- **Compatible with both AC and 12 V DC power supplies**
- **Ideal for use in voice systems, in combination with the KM-1200 special effects generator**

| | |
|---|---|
| Input signals<br>Microphone: × 4, –64 dB, 600 ohms balanced transformer type (XLR-31-3) (Hot: pin 2 for MI-1200E)<br>Turntable: × 1, –54 dB, 50 k-ohms unbalanced (RCA type pin × 2) (L/R mixing system)<br>Tape recorder: × 1, –10 dB, 50 k-ohms unbalanced (RCA type pin × 2) (L/R mixing system)<br>Auxiliary: × 4, –10 dB, 50 k-ohms unbalanced (RCA type pin) | |
| Output signals<br>Programme: × 1, 0 dB/–20 dB switchable, 600 ohms balanced (XLR-32-3)<br>Programme (sub): × 1, –10 dB, 10 k-ohms unbalanced (RCA type pin)<br>Headphones: × 1, 80 mW max., 8 ohms load (stereo phone jack) | |
| Frequency response: | 50 to 15,000 Hz, to 0/–1.5 dB (at 1 kHz) |
| S/N: | More than 60 dB (at 1 kHz) |
| Residual noise: | Less than –70 dB |
| Distortion: | Less than 1% (at 1 kHz, rated output) |
| Level indicators: | 5 LEDs (–15/– 10/– 3/0+3 dB indications) |
| Ambient temperature: | 0°C to 40°C |
| Power supply: | AC 220/240 V, or DC 12V |
| Power consumption: | 5 W (AC), 2.2 VA (DC) |
| Dimensions:<br>Rack mounting: 19" EIA standard rack required panel units 4H<br>Unit dimensions: 482 (W) × 132 (H) × 91 (D) mm | |



All model numbers, specifications and prices are subject to change without notice.

# Professional Monitors




LCD

| | | |
|---|---|---|
| LM-10W | 10" LCD monitor | 72 |

Portable

| | | |
|---|---|---|
| TM-L500PN | LCCS 5" AC/DC PAL/NTSC | 73 |
| TM-1010PN | 10" AC/DC PAL/NTSC | 74 |

Reference

| | | |
|---|---|---|
| TM-1050PND | 10" utility with SDI | 74 |
| BM-H1400PNA | 14" PAL/NTSC | 75 |
| BM-H2000PN | 20" EBU Phosphor PAL/NTSC | 75 |
| IF-C2000SDE | Serial digital interface | 76 |
| TM-1750PN/PND | 17" Component PAL/NTSC , with SDI | 77 |

General purpose

| | | |
|---|---|---|
| TM-1700PN | 17" Y/C (4-pin) PAL/NTSC | 78 |
| TM-2100PN | 21" Y/C (4-pin) PAL/NTSC | 78 |
| TM-H140PN | 14" high-resolution monitor PAL/NTSC | 79 |
| TM-A14PN | 14" Y/C (4-pin) PAL/NTSC | 80 |
| TM-A140PN | 14" composite PAL/NTSC | 80 |
| TM-A10E | 10" composite PAL | 81 |

Display

| | | |
|---|---|---|
| TM-290ZE | 29" component, Y/C PAL/SECAM/NTSC | 82 |

Black and white

| | | |
|---|---|---|
| TM-9043E | 8" with 4-ch switcher and power for up to four TK-S140 cameras | 83 |
| TM-923BEG | 9" | 84 |
| TM-123EG | 14" | 84 |

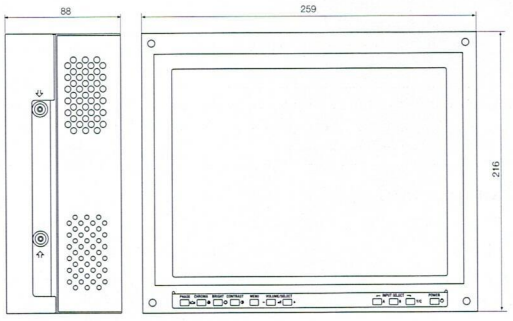
# LCD Colour Monitor

## LM-10W 10.4"



- **10.4" bright and high performance LCD monitor**
- **PAL/NTSC compatibility**
- **Worldwide power operation**
- **Low power consumption**
- **On-screen menu for picture adjustment**
- **Compact rugged metal cabinet**
- **Various optional accessories**
- **Dual rack mountable in a 19" EIA rack**

| | |
|---|---|
| **GENERAL** | |
| Type | Colour video monitor |
| Colour system | PAL/NTSC |
| Audio speaker | 7 cm x 4 cm oval x 1, 1 W output (monaural) |
| Power requirement | 100 to 230 V AC, 50/60 Hz |
| Power consumption | 0.28 A (230 V) / 0.44 A (120 V) |
| Weight | 3.0 kg |
| **DISPLAY PANEL** | |
| Screen size (W x H) | 211.2 x 158.4 mm (10.4" diagonal) |
| Resolution | 640 (H) x 480 (V) pixels |
| Pixel pitch | 0.33 mm |
| Aspect ratio | 4:3 |
| Viewing angle | 160° |
| Display colours | 262,144 (RGB 64 levels each) |
| Response time | 50 ms (typ) |
| **INPUT CONNECTORS** | |
| 1) Input A: | |
| Composite | 1 line, BNC connector x 2<br>1.0 V (p-p), 75 ohms, negative sync., auto-termination, bridged-output possible |
| 2) Input B: | |
| Composite | 1 line, BNC connector x 2<br>1.0 V (p-p), 75 ohms, negative sync., auto-termination, bridged-output possible |
| 3) Input :Y/C | 1 line, mini-DIN 4-pin x 2<br>Y: 1.0 V (p-p), 75 ohms, negative sync.<br>C: 0.3 V (p-p), 75 ohms, auto-termination, bridged output possible |
| Audio terminals | 1 line, RCA pin x 2 for input A and B common use, 500 mV(rms), high-impedance, bridged-output possible |

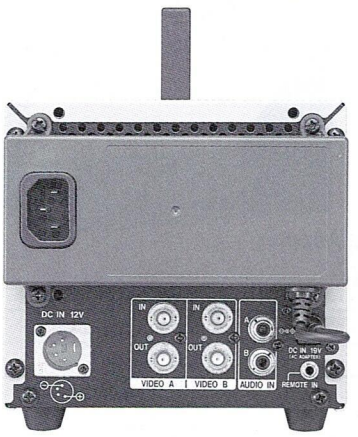





All model numbers, specifications and prices are subject to change without notice.

# TM-L500PN 5"

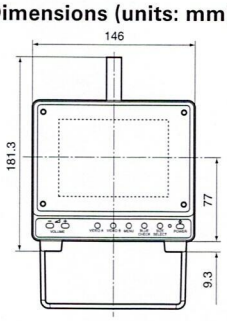
## PAL/NTSC

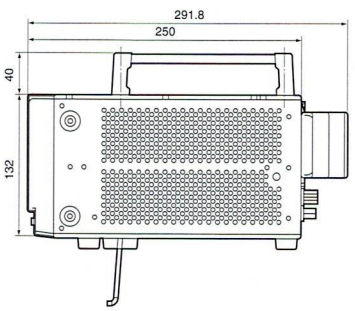



- **Super Bright, Super High resolution compact portable LCCS colour monitor**
- **5-inch, rack-mountable monitor is ideal for ENG field production, video production trucks, sports arena VIP seating and videography.**
- **Liquid Crystal Colour Shutter technology, unlike a conventional CRT monitor, utilises a combination of a black and white CRT with a liquid crystal colour shutter.**
- **Sharp images are displayed in even the brightest environment without misconvergence or annoying moire patterns**
- **Over 400 TV lines of resolution**
- **Highly-compact unit is triple EIA rack mountable and weighs less than 3.5 kg (about 7-1/2 pounds) with its AC adapter**
- **Dual NTSC or PAL inputs**
- **Display size adjustable for overscan, underscan and 16:9**
- **Blue only mode for colour phase adjustment**
- **Detachable AC adapter (19 V output) with 100~240 V, 50/60 Hz range**
- **AC adapter Interchangeable with 12 V DC battery mount adapter.**
- **Twin loop-through BNC Video with mono RCA Audio inputs**
- **Easy adjustment and set-up by menu, including contrast, brightness, sharpness, chroma, phase, video system, power save mode, and channel settings.**

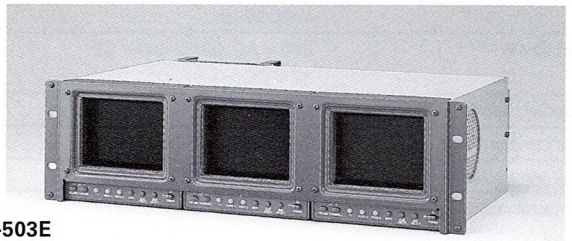
| | |
|---|---|
| Type: | LCCS video monitor |
| Colour system: | PAL/NTSC |
| Picture tube: | 12.7 cm measured diagonally, black and white |
| Effective screen size: | Width: 94.2 mm<br>Height: 70.7 mm<br>Diagonal: 114.3 mm |
| Video inputs: | 2 line inputs, composite video, BNC connector x 4, 1 V (p-p), 75 ohms<br>Bridge connection possible, 75 ohms (auto termination) |
| Audio inputs: | 2 line inputs, monaural, RCA-pin connector x 2, 0.5 V (rms), high-impedance |
| REMOTE IN input: | 1 line input, mini-jack connector |
| Built-in speaker: | 5 cm round x 1 |
| Operating temperature: | 0°C ~ 40°C |
| Operating humidity: | 20% ~ 80%, non-condensing |
| Power requirements: | 100 V ~ 240 V AC, 50/60 Hz or 12 V DC |
| Power consumption: | 2 A (DC 19 V) (using an AC adapter), 3.8 A (DC 12 V) (using a battery) |
| Weight: | 3.5 kg (including AC adapter), 3.2 kg (not including AC adapter) |
| Provided accessories: | AC power cord (UK-type (1.8 m)) x 1, AC power cord (European-type (1.8 m)) x 1, AC adapter (attached to monitor) x 1 |

**Dimensions (units: mm)**

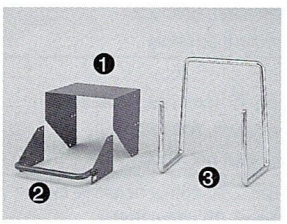


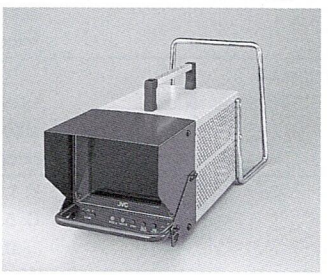

## Options



**RK-503E**
**3U Rack Mount Adapter**




**TS-C500FKE**
**Field Kit**
**❶ Hood**
**❷ Guard Ber**
**❸ Terminal Guard**



**With the Field Kit Attached**

**BH-C901E**
**Battery Adapter for 1×BP-90 or 2×NP-1 type**

All model numbers, specifications and prices are subject to change without notice.

JVC PROFESSIONAL

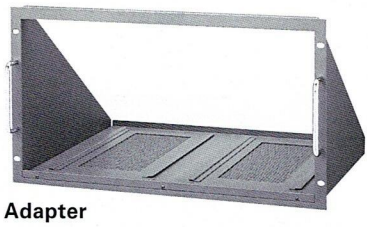
# Field/Studio Colour Video Monitors

## TM-1010PN/TM-1050PND 10"

**PAL/NTSC**

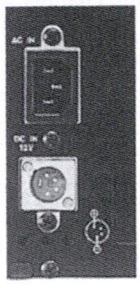


- **Serial digital component input (TM-1050PND)**
- **PAL/NTSC Compatible**
- **16:9 Display Capability**
- **Tally Lamp**
- **Tally/Remote Connector**
- **Rugged Metal Cabinet**
- **Underscan, Pulse Cross, Blue Check, Colour OFF, External Sync**
- **AC Mains or 12 V DC Operation**
- **Dual Mountable in 19" Rack Side by Side**

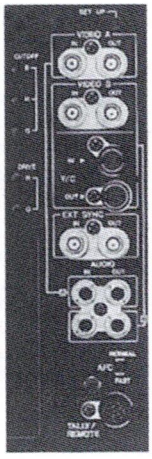


**RK-A10E**
**Rack Mount Adapter**

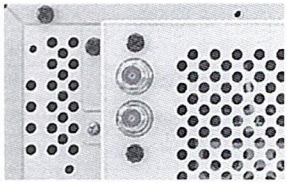
| | TM-1010PN | TM-1050PND |
|---|---|---|
| Type | Colour video monitor | ← |
| Colour system | PAL/NTSC | ← |
| CRT | 10" (diagonally measured), in-line gun, stripe pitch 0.50 mm | ← |
| Scanning frequency | H: 15.625 kHz (PAL)/15.75 kHz (NTSC)<br>V: 50/60 Hz | ← |
| Rated power | 230 V AC, 50 Hz under CE<br>12 V DC | ← |
| Horizontal resolution | More than 280 TV lines | ← |
| Power consumption | 0.41 A (AC), 3.3 A (DC12 V) | 0.54 A |
| Colour temperature | 6500°K | ← |
| Input terminals<br>1) Input A:<br>Composite video | 1.0 V (p-p), 75 ohms, negative sync., auto-termination, BNC x 2<br>bridged output possible | ← |
| 2) Input B:<br>Composite video | 1.0 V (p-p), 75 ohms, negative sync., auto-termination, BNC x 2,<br>bridged output possible | ← |
| Y/C | Y: 1.0 V (p-p), 75 ohms, negative sync.<br>C: 0.3 V (p-p), 75 ohms (PAL)<br>0.286 V (p-p), 75 ohms (NTSC)<br>Auto-termination, S-4-pin x 2,<br>bridged output possible | NO |
| SDI | - | SMPTE 259M,<br>BNC x 2, active through-out mechanical switch, composite-SDI |
| 3) External sync: | Composite sync. 1.0 - 4.0 V (p-p)<br>BNC x 2, bridged output possible | NO |
| Audio terminals | RCA pin x 4 for input A & B, bridged output possible | ← |
| Audio speaker | 8 cm round, 1 W output | ← |
| Power cord | Continental type (TM-1010PN/TM-1050PND)<br>UK Mains Lead type (TM-1010PN-K) | ← |
| Tally/remote | DIN 8-pin | ← |



**TM-1010PN**



**TM-1010PN (TM-1050PND has no Y/C)**



**TM-1050PND SDI I/O**

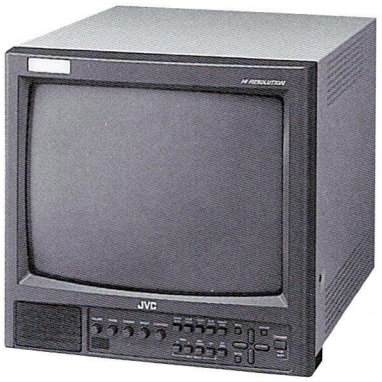


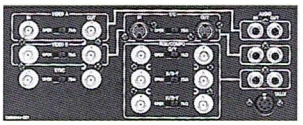
All model numbers, specifications and prices are subject to change without notice.

# Reference Monitors

## BM-H1400PNA 14"

### Component PAL/NTSC



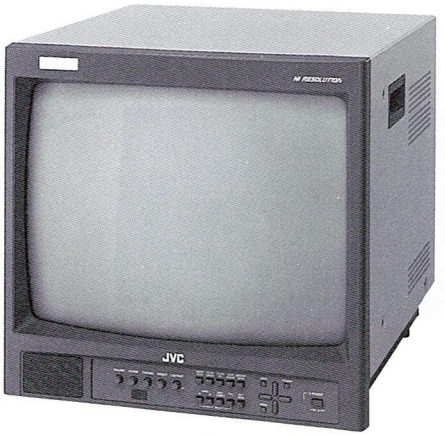


- **High Resolution: More than 750 TV horizontal lines**
- **PAL/NTSC/NTSC 4.43 capability (auto)**
- **Multi-format compatibility accepting variety of video inputs:**
  **1) Composite video signals (BNC)**
  **2) Y/C separate video signals (4-pin)**
  **3) Y/R-Y/B-Y signals (BNC)**
  **4) RGB analogue signal (BNC)**
- **Beamcurrent feedback system for colour balance stability**
- **"Memory Mode" for user preset capability**
- **On-screen menu & control for sub-functions**
  **e.g.:**
  **1) Colour temp. select 6500°K/ 9300°K**
  **2) Aspect select 4:3/16:9**
  **3) Front control lock**
- **Wireless remote control (Remote unit is optional RM-C550W)**
  **1) With a single wireless remote control adopting**

| | |
|---|---|
| Type: | Colour video monitor |
| Colour system: | PAL/NTSC/NTSC 4.43 |
| CRT: BM-H2000PN | 20" (diagonally measured), trio-dot pitch CRT<br>Phosphor: EBU<br>Dot pitch : 0.4 mm |
| BM-H1400PN | 14" (diagonally measured), trio-dot pitch CRT<br>Phosphor: P22 standard<br>Dot pitch : 0.28 mm( ≒ AG 0.24 mm) |
| Scanning frequency: | H: 16.625 kHz (PAL)/15.75 kHz (NTSC)<br>V: 50/60 Hz |
| Horizontal resolution: | More than 750 TV lines |
| Power requirements: | 230 V AC ± 10%, 50/60 Hz |
| Power consumption: | 0.6 A |
| Colour temperature: | 6500°K/9300°K (selectable) |
| Input terminals | |
| Input A/B: Composite video | 1.0 V(p-p), 75 ohms, negative sync, termination switch provided, BNC x 2, bridged output possible |
| Input C: Y/C | Y: 1.0 V(p-p), 75 ohms, negative sync:<br>C: 0.286 V(p-p), 75 ohms (NTSC);<br>0.3 V(p-p), 75 ohms (PAL)<br>termination switch provided<br>S-4pin x 2, bridged output possible |
| RGB | R: 0.7 V(p-p), 75 ohms;<br>G: 0.7 V(p-p), 75 ohms;<br>B: 0.7 V(p-p), 75 ohms;<br>G on sync: 1.0 V(p-p), 75 ohms, negative sync;<br>termination switch provided<br>BNC x 6, bridged output possible |

## BM-H2000PN 20"

### Component PAL/NTSC



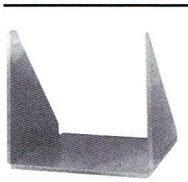
**(cont.)**

**ID system, users can operate, control and adjust several monitors, either individually or collectively**
**2) Functions**
- **Picture adjustment (Repeat functions of the ON-SCREEN MENU plus front panel picture controls)**
- **Degauss**
- **Volume**

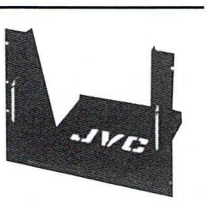
- **On-screen menu & control for sub-functions**
  **e.g.**
- **Colour temp. select 6500°K/ 9300°K**
- **Aspect select 4:3/16:9**
- **Front control lock**
- **Built-in speaker**
- **Mountable in EIA-standard rack with optional adapter (RK-1400E/RK-20E)**
- **Meets CE regulation**

| | |
|---|---|
| Component | Y: 1.0 V(p-p), 75 ohms, negative sync;<br>R-Y; 0.7 V(p-p), 75 ohms;<br>B-Y: 0.7 V(p-p), 75 ohms;<br>termination switch provided<br>BNC x 6, bridged output possible<br>(common to RGB terminals) |
| External sync: | Composite sync. 0.2 V – 4.0 V(p-p) |
| Audio terminals: | RCA pin x 3 for input A, B and C channels, bridged output possible |
| Audio speaker: | 9cm x 5cm (oval), 0.8 W output |
| Tally/Remote: | DIN 8-pin |
| Option: | Remote controller/19" rack mount unit |
| Power cord | Continental type (BM-H1400/2000PN)<br>UK mains lead type (BM-H1400/2000PN-K) |
| Dimensions: | 346 (W) x 332 (H) x 410 (D) mm<br>(BM-H1400PN)<br>449 (W) x 431 (H) x 511 (D) mm<br>(BM-H2000PN) |
| Weight: | 16.2 kg (BM-H1400PN)<br>30.0 kg (BM-H2000PN) |

## Optional Accessories



**RK-20E**
**Rack Mount Adapter for BM-H2000PN**



**RK-1400E**
**Rack Mount Adapter for BM-H1400PN**

**RM-C550W**
**Wireless Remote Control unit for BM-H2000PN/ BM-H1400PN**

All model numbers, specifications and prices are subject to change without notice.

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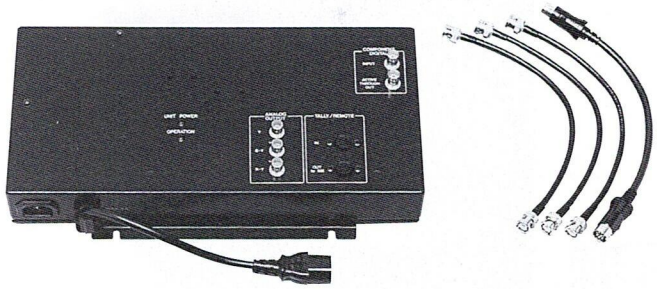
# IF-C2000SDE

## Component PAL/NTSC





- **Signal Compatibility, Auto Select 525/60 or 625/50**
- **SMPTE 259M Compatible**
- **Active Loop Through provided**
- **World-wide Power Loop Through**
- **AC Power Loop Through**
- **Mountable on the Back of BM Monitor Line-up**

| | |
|---|---|
| SDI unit | Serial digital interface unit |
| Signal format | 525/60, 625/50, auto select |
| Input | D1 component serial digital SMPTE 259M, BNC 1CH |
| Loop through out | Active BNC 1CH, 200 m distance |
| Output | Analogue component Y, R-Y, B-Y |
| Sampling frequency | Y:13.5 MHz, R-Y/B-Y:6.75 MHz |
| Bit rate | 270 MB/s, 10 BT/SAMPLE |
| Video bandwidth | Y:100Hz - 5.75 MHz +/–1 dB<br>R-Y/B-Y:100 Hz - 2.75 MHz +/–1 dB |
| Power supply | AC120 - 230 V |
| Power consumption | 15 W |
| Remote function | Tally, input select, control 1/2 |



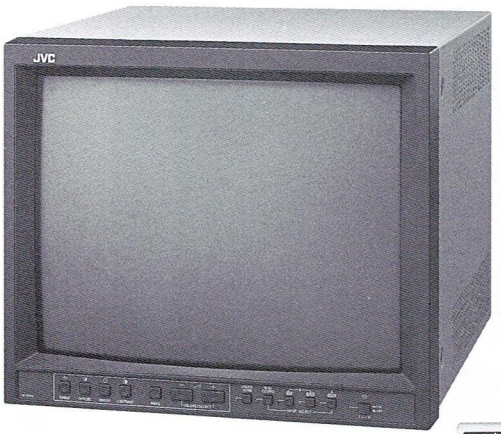
All model numbers, specifications and prices are subject to change without notice.

# TM-1750PN/TM-1750PND 17"

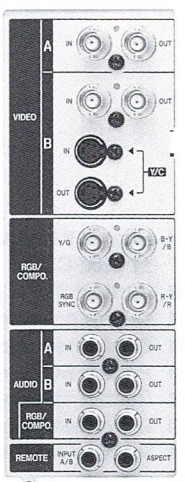
## Component PAL/NTSC



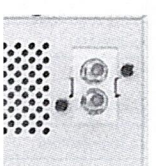
- **Serial digital component input (TM-1750PND)**
- **550 lines of horizontal resolution**
- **16:9/4:3 selectable aspect ratio**
- **On-screen menu**
- **Wired remote control**
- **Big screen, small cabinet design**
- **Component/RGB input terminals**
- **Under scan, blue check, aspect ratio and colour temperature**
- **PAL/NTSC compatible**
- **1.5R flat square CRT with precision in-line guns**
- **Stripe pitch of 0.42 mm**
- **Auto-select switch identifies the input signal and switches mode**
- **Rugged metal cabinet**
- **Built-in 8 cm loudspeaker**
- **Wired remote control terminal for selecting input channel A/B as well as aspect ratio**
- **Optional RK-1700E rack mount**




**TM-1750PND**




**TM-1750PN/PND**



**TM-1750PND**
**SDI I/O**

| | TM-1750PN | | TM-1750PND |
|---|---|---|---|
| Type | Colour video monitor | | ← |
| Colour system | PAL/NTSC | | ← |
| CRT | 17" (diagonally measured), stripe-trio pitch 0.42 mm | | ← |
| Scanning frequency | H:15.675 (PAL) /15.734 (NTSC) kHz<br>V: 50/60 Hz | | ← |
| Horizontal resolution | More than 550 TV lines | | ← |
| Power requirements | 230 V AC, 50/60 Hz | | 230 V AC, 50/60 Hz |
| Power consumption | 0.72 A | | 0.6 A |
| Colour temperature | 6500°K /9300°K (selectable) | | ← |
| Input terminals | | | |
| | 1) Input A:<br>Composite video | 1.0 V (p-p), 75 ohms, negative sync., auto-termination<br>BNC x 2, bridged output possible | ← |
| | 2) Input B:<br>Composite video | 1.0 V (p-p), 75 ohms, negative sync., auto-termination<br>BNC x 2 bridged output possible<br>Y: 1.0 V (p-p), 75 ohms, negative sync.<br>C: 0.286 V (p-p), 75 ohms auto-termination, S-4 pin x 2, bridged output possible | ← |
| | 3) RGB/component<br>RGB | R: 0.7 V (p-p), 75 ohms<br>G: 0.7 V (p-p), 75 ohms<br>B: 0.7 V (p-p), 75 ohms<br>RGB composite sync<br>0.3-4 V (p-p), 75 ohms, negative sync.<br>BNC x 4 | ← |
| | Component | Y: 1.0 V (p-p), 75 ohms, negative sync.<br>R-Y: 0.7 V (p-p), 75 ohms<br>B-Y: 0.7 V (p-p), 75 ohms<br>BNC x 3, common to RGB terminals | ← |
| | SDI | – | SMPTE 259M<br>BNCx2, active through-out |
| Audio terminals | RCA pin x 6 for input A, B and RGB/component bridged output possible | | ← |
| Audio speaker | 8 cm round x 1, 1 W output | | ← |
| Remote terminals | RCA pin x 2, 1 for input select A/B, 1 for aspect | | ← |
| Dimensions | 395 (W) x 334.3 (H) x 420.5 (D) mm<br>(14-1/4" x 13-1/4" x 15-1/2") | | 395 (W) x 334 (H) x 427.5 (D)mm<br>(14-1/4" x 13-3/16" x 16-7/8") |
| Weight | 17.2 kg (37.9 lbs.) | | 17.8 kg (39.2 lbs.) |

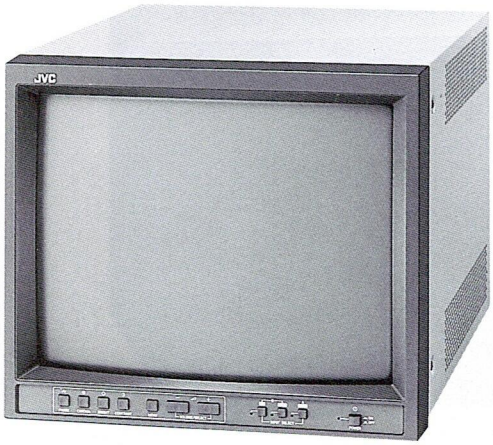
All model numbers, specifications and prices are subject to change without notice.

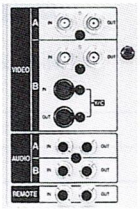
# Colour Monitors



## TM-1700PN 17"

**PAL/NTSC**



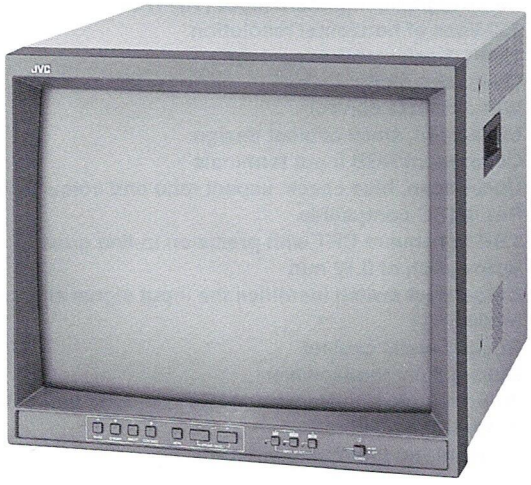


- **High 550 Horizontal TV lines resolution picture from unique 17 inch CRT**
- **Vertical Stripe phosphors**
- **16:9 or 4:3 selectable aspect ratio**
- **Brightness peak suppression system reduces tube wear**
- **PAL/NTSC auto selection**
- **Built-in speaker**
- **User-friendly on-screen display menu**
- **Memory function**
- **Control lock**
- **Wired remote control**
- **Rugged metal cabinet**
- **Optional RK-1700E rack mount**

| **Type** | Colour video monitor |
|---|---|
| Colour system | PAL/NTSC, Auto select |
| CRT | 17" diagonal, in-line guns, stripe pitch of 0.42 mm |
| Horizontal resolution | 550 TV lines |
| Colour temperature | 6,500°K / 9,300°K (selectable) |
| Power requirement | 230 V AC, 50/60 Hz |
| Power consumption | 0.6 A |
| Video Input A: Composite | 1.0 VB (p-p), 75 ohms, negative sync, auto-termination, BNC x 2, bridged out possible |
| Video Input B: Composite | 1.0 VB (p-p), 75 ohms, negative sync, auto-termination, BNC x 2, bridged out possible |
| Video Input B: Y/C | Y: 1.0 V (p-p), 75 ohms, negative sync<br>C: 0.286 V (p-p), 75 ohms (NTSC)<br>C: 0.3 V (p-p), 75 ohms (PAL)<br>Auto termination, DIN 4-pin x 2, bridged out possible |
| Audio input / output | RCA pin x 4 for input A and input B channels, bridged out possible |
| Audio output power | 1 W |
| Power cord | Continental type (TM-1700PN)<br>UK mains lead type (TM-1700PN-K) |
| Remote terminal | RCA pin x 2, bridged out possible |
| Dimensions | 395 (W) x 334.3 (H) x 420.5 (D) mm<br>(14-1/4" x 13-1/4" x 15-1/2") |
| Weight | 17.2 kg (37.9 lbs.) |

## TM-2100PN 21"

**PAL/NTSC**



- **450 Horizontal TV lines resolution picture from 21 inch CRT**
- **Vertical Stripe phosphors**
- **16:9 or 4:3 selectable aspect ratio**
- **Brightness peak suppression system extends tube life**
- **PAL/NTSC auto selection**
- **Built-in speaker**
- **User-friendly on-screen graphical menu**
- **Memory function**
- **Control lock**
- **Wired remote control**
- **Rugged metal cabinet**

| **Type** | Colour video monitor |
|---|---|
| Colour system | PAL/NTSC , Auto select |
| CRT | 21" diagonal, in-line guns, stripe pitch of 0.69 mm |
| Horizontal resolution | 450 TV lines |
| Colour temperature | 6,500°K / 9,300°K (selectable) |
| Power requirement | 230 V AC, 50/60 Hz |
| Power consumption | MAX 0.72 A |
| Video Input A: Composite | 1.0 VB (p-p), 75 ohms, negative sync, auto-termination, BNC x 2, bridged out possible |
| Video Input B: Composite | 1.0 VB(p-p), 75 ohms, negative sync, auto-termination, BNC x 2, bridged out possible |
| Video Input B: Y/C | Y: 1.0 V (p-p), 75 ohms, negative sync<br>C: 0.3 V (p-p), 75 ohms (PAL)<br>C: 0.286 V (p-p), 75 ohms (NTSC)<br>Auto termination, DIN 4-pin x 2, bridged out possible |
| Audio input / output | RCA pin x 4 for input A and input B channels, bridged out possible |
| Audio output power | 1 W |
| Remote terminal | RCA pin x 2, bridged out possible |
| Power cord | Continental type (TM-2100PN)<br>UK mains lead type (TM-2100PN-K) |
| Dimensions | 476 (W) x 407.5 (H) x 492 (D) mm<br>(18.-3/4" x 16-1/16" x 19-3/8" ) |
| Weight | 28.5 kg (62.8 lbs.) |

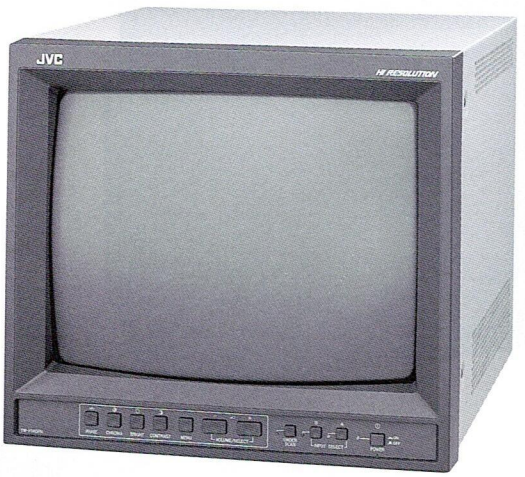
All model numbers, specifications and prices are subject to change without notice.

# TM-H140PN 14″

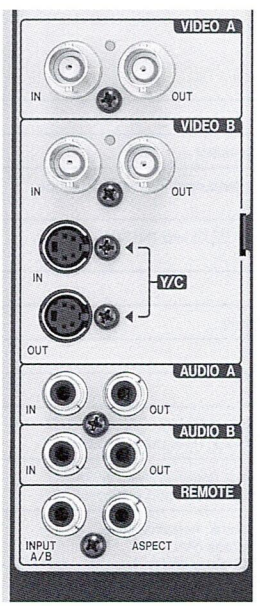
## PAL/NTSC



- High resolution more than 750 TV lines
- PAL/NTSC compatibility
- Underscan function available
- Wired remote functions
- 16:9/4:3 switchable aspect ratio
- On-screen menu for picture adjustment
- Rugged metal cabinet
- Optional RK-A140E rack mount

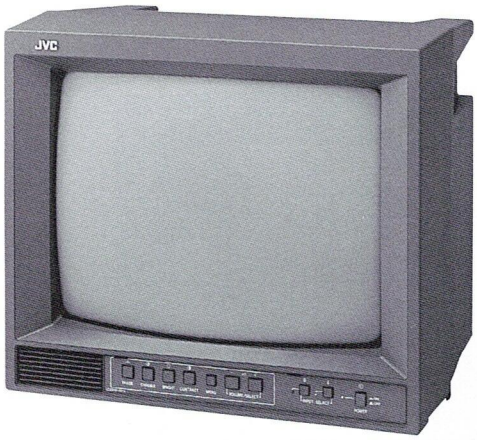


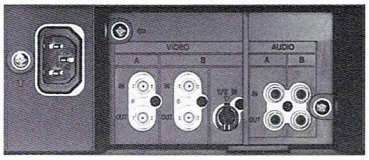

| | |
|---|---|
| Type | Colour video monitor |
| Colour system | PAL/NTSC |
| Scanning frequency | H: 15.625 kHz (PAL) / 15.734 kHz (NTSC), V: 50/59.94 Hz |
| CRT | 36 cm (14") (diagonally measured), stripe pitch 0.28 mm |
| Horizontal resolution | More than 750 TV lines (Y/C input mode) |
| Power requirements | 230 V AC, 50/60 Hz |
| Power consumption | 0.54 A |
| Colour temperature | 6,500K/9300K selectable |
| Input terminals | |
| 1) Input A: | |
| Composite | 1 line, BNC connector x 2, 1.0 V (p-p), 75 ohms, negative sync., auto-termination, bridged-output possible |
| 2) Input B: | |
| Composite | 1 line, BNC connector x 2, 1.0 V (p-p), 75 ohms, negative sync., auto-termination, bridged-output possible |
| Y/C | 1 line, mini-DIN 4-pin x 2 |
| | Y: 1.0 V (p-p), 75 ohms, negative sync. |
| | C: 0.3 V (p-p) (PAL) / 0.286 V (p-p) (NTSC), 75 ohms auto-termination, bridged output possible |
| Audio terminals | RCA pin x 4 for inputs A and B, 0.5 V (rms), high-impedance bridged-output possible |
| Remote input A/B | 1 line, RCA pin x 1 |
| Remote aspect | 1 line, RCA pin x 1 |
| Audio speaker | 8 cm round x 1, 1 W output (monaural) |
| Weight | 13.2 kg (29.1 lbs.) |




All model numbers, specifications and prices are subject to change without notice.

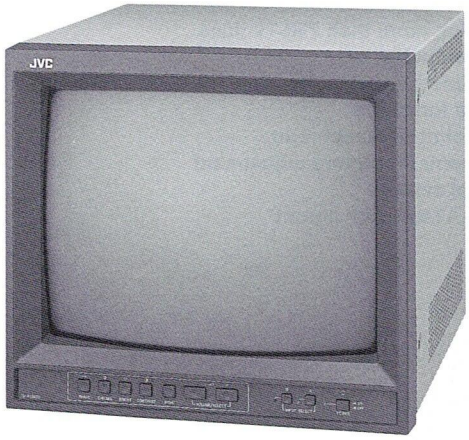
# TM-A14PN
## PAL/NTSC

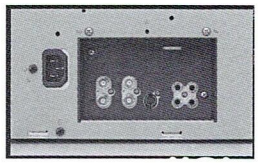



**TM-A14PN**
- 320 Horizontal TV lines picture from 14 inch CRT
- Vertical Stripe phosphors
- NTSC / PAL auto selection
- Built-in speaker
- User-friendly on-screen display menu
- Control lock
- Optional RK-A14E rack mount

# TM-A140PN 14″
## PAL/NTSC



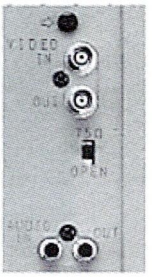
**TM-A140PN**
- Metal case model, features same as TM-A14PN
- Optional RK-A140E rack mount

| Model | TM-A14PN | TM-A140PN |
|---|---|---|
| Colour system | PAL/NTSC, Auto select | ← |
| CRT | 14" (diagonally measured) in-line guns, stripe pitch of 0.65 mm | ← |
| Scanning frequency | H: 15.625 (PAL) / 15.75 kHz (NTSC)<br>V: 50/60 Hz | ← |
| Horizontal resolution | 320 TV lines | ← |
| Power requirement | 230 V AC, 50/60 Hz | ← |
| Power consumption | 0. 5 A | ← |
| Colour temperature | 6,500°K | ← |
| Video Input A: Composite | 1.0 Vp-p, 75 ohms, negative sync, auto-termination, BNC x 2, bridged out possible | ← |
| Video Input B: Composite | 1.0 Vp-p, 75 ohms, negative sync, auto-termination, BNC x 2, bridged out possible | ← |
| Video Input B: Y/C | Y: 1.0 Vp-p, 75 ohms, negative sync<br>C: 0.3 Vp-p, 75 ohms (PAL)<br>C: 0.286 Vp-p, 75 ohms (NTSC)<br>Auto termination, DIN 4-pin x 2, bridged out possible | ← |
| Audio input / output | RCA pin x 4 for input A and input B channels, bridged out possible | |
| Audio output power | 1 W | ← |
| Power cord | Continental type (TM-A14PN)<br>UK mains lead type (TM-A14PN-K) | Continental type (TM-A140PN)<br>UK mains lead type (TM-A140PN-K) |
| Remote terminal | RCA pin x2, bridged out possible | ← |
| Dimensions | 368 (W) x 310 (H) x 371.5 (D) mm (14-1/2" x 12-1/4" x 14-11/16" ) | 346 (W) x 310 (H) x 368.5 (D) mm (13-5/8" x 12-1/4" x 14-9/16" ) |
| Weight | 9.5 kg (20.9 lbs.) | 12.2 kg (26.9 lbs.) |



All model numbers, specifications and prices are subject to change without notice.

# TM-A10E 10"
## PAL

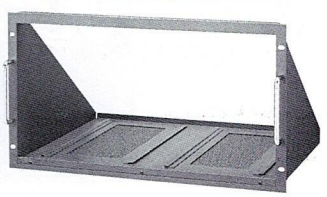



**TM-A10E**

- **25 cm (10") Full-Square CRT with 90° deflection, in-line guns and vertical stripe pitch of 0.50 mm**
- **Two units can be mounted side-by-side in a standard EIA (optional accessory: RK-A10E) and DIN rack**
- **Durable, space-saving metal cabinet**
- **Horizontal resolution of more than 280 lines**
- **Composite video input terminal (BNC). Bridged output provided**
- **Built-in 8 cm round speaker with 1 W audio output**

| | |
|---|---|
| Type | Colour video monitor |
| Colour system | PAL |
| Power requirement | 230V AC, 50Hz |
| Power consumption | 0.33 A (Max.) |
| CRT | 10" (25 cm) diagonally measured, 90° deflection, in-line guns, vertical stripe pitch of 0.50 mm |
| Scanning frequency | H: 15.625 kHz, V: 50 Hz |
| Horizontal resolution | More than 280 TV lines |
| Picture size (Over Scan) | Horizontal: +10%, ±5%<br>Vertical: +5%, ±5% |
| Misconvergence (Max.) | Zone A: Max. 0.3 mm<br>Zone B: Max. 0.9 mm |
| Colour temperature | 6500°K |
| Audio output | 1 W |
| Speaker | 8 cm round x 1 |
| Video connection | BNC x 2 (1 for bridged output), 1.0V(p-p), 75 ohms, negative sync, termination switch provided |
| Audio connection | Phone x 2 (1 for bridged output) |
| Power Cord | Continental type (TM-A10E)<br>UK mains lead type (TM-A10E-K) |
| Dimensions | 222 (W) x 227 (H) x 315 (D) mm<br>(8-3/4" x 8-15/16" x 12-7/16") |
| Weight | 6.9 kg (15.2 lbs.) |

**RK-A10E**
**Rack Mount Adapter**
**(Two TM-A10E monitors can be mounted in a standard EIA rack)**



All model numbers, specifications and prices are subject to change without notice.

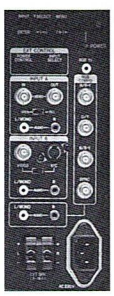
# Colour Video Display Monitor

## TM-290ZE 29"

### PAL/SECAM/NTSC



- **High resolution; 700 horizontal TV lines**
- **Digital comb filter for enhanced picture quality**
- **Multi-format video input:**
  - **— PAL/SECAM/NTSC/NTSC 4.43**
  - **— Composite video, Y/C, Component, RGB analogue**
- **Provided Wireless Remote Control unit (picture adjustment, white balance adjustment, ID system operation, etc.)**
- **RGB Ys terminal for superimposing an analogue RGB signal on a video signal**
- **"Screen Saver" function to prevent the CRT from burnout caused by the lengthy display of a still picture**
- **Built-in 10W + 10 W amplifier for use with an external speaker**
- **Tough construction for multiple applications either stacked or suspended from a ceiling**



| | |
|---|---|
| Type: Colour Video monitor | |
| Colour system: PAL/SECAM/NTSC/NTSC 4.43 | |
| Picture tube: | 29" (diagonally measured)<br>data-grade flat-square tube,<br>110° deflection |
| Power requirement: 230 V AC, 50 /60 Hz | |
| Power consumption: 130 W | |
| Horizontal resolution: 700 TV lines | |
| Input A | Composite video (BNC × 2)<br>1 V(p-p), 75 ohms, bridged output possible<br>Audio (RCA; Lx1, Rx1)<br>500 mV rms, high impedance |
| Input B | Composite video (BNC × 1) 1 V(p-p), 75 ohms<br>Y/C separate video (4-pin × 1)<br>Y:1 V(p-p), 75 ohms<br>C: 0.3 V(p-p) (PAL), 75 ohms<br>Audio (RCA; Lx1, Rx1)<br>500 mV rms, high impedance |
| RGB/Component inputs: R/R-Y, G/Y, B/B-Y, (BNCx3) 0.7 V(p-p), 75 ohms<br>Sync (BNCx1) 1.0~4.0 V(p-p), 75 ohms<br>Audio (RCA; Lx1, Rx1)<br>500 mV rms, high impedance | |
| Ys input: | RCAx1<br>L: Video 0~0.4 V, 75 ohms<br>H: RGB 1.0~4.0 V, 75 ohms |
| Audio outputs: 10 W + 10 W, 8 ohms (for external speakers) | |
| Ext. control: Input × 1, power × 1 (mini-jack) | |
| Weight: 42.3 kg (93.3 lbs.) | |
| Dimension: 638 (W) × 508 (H) × 495 (D) mm (25-1/8" x 20" x 19-1/2") | |

**Various Applications (Examples)**

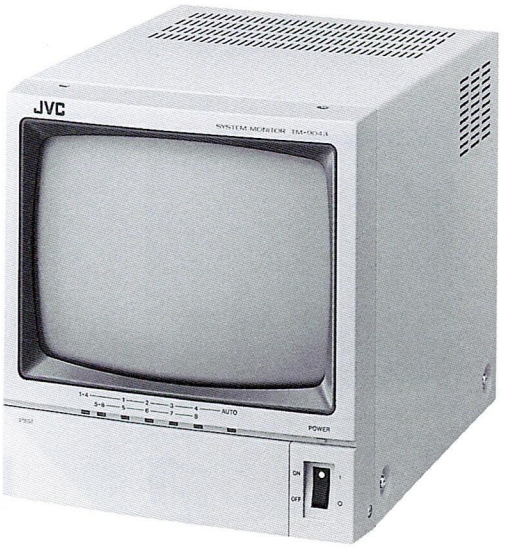
All model numbers, specifications and prices are subject to change without notice.

# B/W Video Monitor

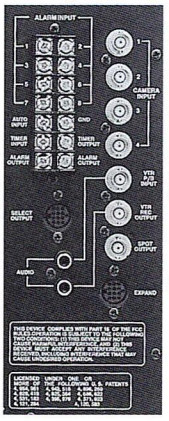
## TM-9043E 9″

**(No EN50130) Please check for availability.**






- **High Resolution**
  **The TM-9043E has a super high resolution of 700 horizontal lines for exceptional picture quality.**
- **Multi-Camera Connection**
  **A built-in 4-input camera control unit connects the TM-9043E with up to four cameras via coaxial cable for multiplex operation.**
  **The TK-S140E video camera is powered by the TM-9043E monitor, which simplifies the system's structure.**
- **Automatic Switching Function**
  **The TM-9043E has an integrated sequential operating function that automatically switches over between images captured by up to four cameras after a set time.**
- **Alarm Function**
  **With external sensors connected, the TM-9043E can be activated as part of an alarm system.**




| Model | TM-9043EG |
|---|---|
| Picture tube | 9",90° deflection |
| Horizontal resolution | More than 700 lines (at centre) |
| Scanning frequencies | H: 15.625 kHz V: 50Hz |
| Sequential switcher | × 4 duration |
| | Internal 0.3 to 30 sec, External from 0.3 sec. |
| Input | Camera x 4: (power for TK-140E only)<br>VTR playback: VS, 1.0 V (p-p), 75 ohms |
| Output | VTR : VS, 1.0 V (p-p), 75 ohms<br>Spot : VS, 1.0 V (p-p), 75 ohms |
| S/N ratio | More than 55 dB |
| Video frequency response | 15 kHz to 9 MHz |
| Sweep linearity | — |
| Power supply | 230 ~ 240 V AC |
| Power consumption | Approx. 65 W |
| Ambient temperature range | –10°C to +50°C (14°F to 122°F) |
| Weight | Approx. 7 kg (15.4 lbs.) |
| Dimensions | 220 (W) x 248 (H) x 280 (D) mm<br>(8-11/16" x 9-13/16" x 11-1/16") |

## Optional System Unit

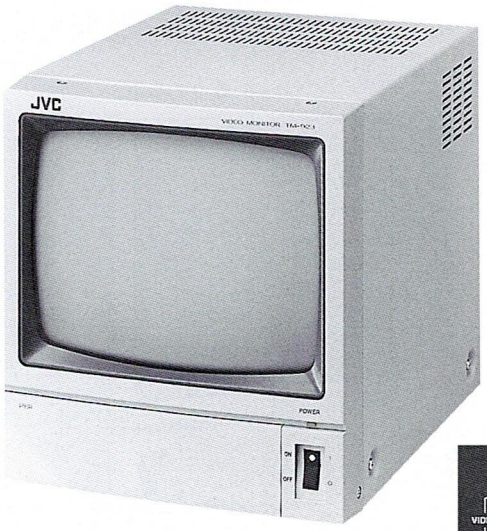
**TK-S140E**

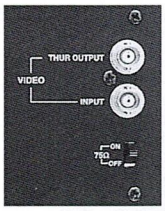
All model numbers, specifications and prices are subject to change without notice.

# B/W Video Monitor



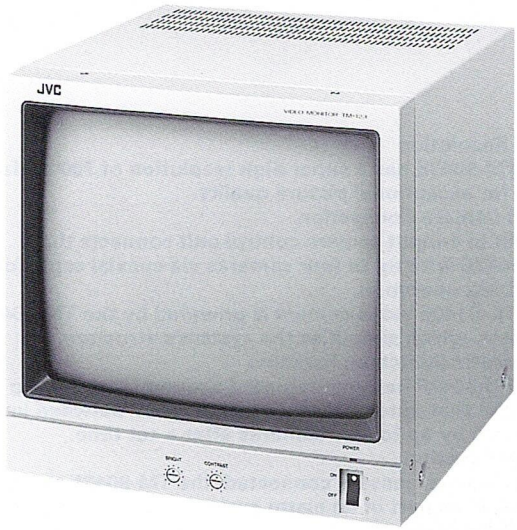
## TM-923BEG 9″

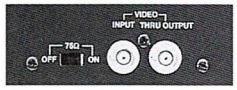



- **High Resolution Pictures**
  **With 700 lines of horizontal resolution, the monitor provides sharp reproduction of every detail.**
- **Looped-through Output with convenient looped-through connection available.**
- **Flexible Mounting**
  **Two TM-923Es can be mounted together in a standard EIA 19" rack using the optional UC-P1016U Rack Mount Adapter.**

## TM-123EG 14″




- **High Resolution Pictures**
  **With 700 lines of horizontal resolution, the monitor provides sharp reproduction of every detail.**
- **Looped-through Output with convenient looped-through connection available.**
- **Flexible Mounting**
  **Can be mounted in a standerd EIA 19" rack using the optional UC-P1027U Rack Mount Adapter.**

| Model | TM-923BEG | TM-123EG |
|---|---|---|
| Picture tube | 9", 90° deflection (230BTB4) | 14", 90° deflection |
| Horizontal resolution | More than 700 lines (at centre) | ← |
| Scanning frequencies | Horizontal: 15.625kHz ,<br>Vertical:50Hz | ← |
| Sequential switcher | — | — |
| | — | — |
| Input | Video × 1: VS, 1.0 V (p-p),<br>75 ohms (BNC) | ← |
| Output | (loop-through) Video × 1: VS, 1.0 V (p-p),<br>75 ohms (BNC) | ← |
| S/N ratio | More than 55 dB | ← |
| Video frequency response | 15 kHz to 9 MHz | ← |
| Sweep linearity | Less than 7% | ← |
| Power supply | 220 ~ 240 V AC, 50/60Hz | ← |
| Power consumption | Aprox. 25 W | Approx. 27 W |
| Ambient temperature range | –10°C to +50°C (14°F to 122°F) | ← |
| Weight | Approx. 6.3 kg (13.9 lbs.) | Approx. 10.5 kg (23.2 lbs.) |
| Dimensions | 220 (W) x 248 (H) x 280 (D) mm<br>(8-11/16" x 9-13/16" x 11-1/16") | 316 (W) x 308 (H) x 310 (D) mm<br>(12-1/2" x 12-3/16" x 12-1/4") |



All model numbers, specifications and prices are subject to change without notice.

# Presentation Products



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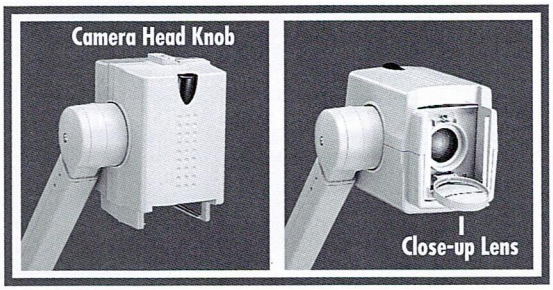
# Digital Presenter

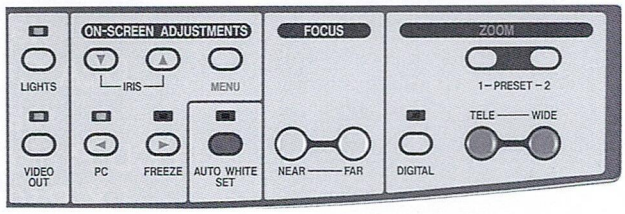
# AV-P1000E



- High-resolution 1280 x 960 pixels equivalent to SXGA images without degradation or flicker
- RGB (SXGA to VGA) or NTSC/PAL output for easy integration into any system
- 3-picture memory
- Simultaneous split screen display of picture from memory together with live image
- Smooth transitions with freeze function to keep your presentation running smoothly
- 20x zooming with the 4x electronic zoom combined with the 5x optical zoom
- 8-point character size clearly displayed when fonts such as Arial Bold are used
- Camera head rotation control for camera panning
- Flip-type close-up lens
- Slide film holder
- 5-position arm with tilting camera
- Full flat stage for large and wide objects
- Wireless remote control
- On-screen display
- RS-232C serial interface allowing control of useful functions from a personal computer
- Camera/PC input selector
- Book holder
- On-screen pointer indication
- Industry standard 15-pin "D" connector
- 75-ohm composite video outputs for connection to a video monitor or TV receiver/monitor

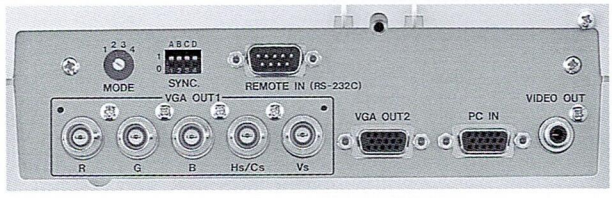



Control Panel




Remote Control Unit

Rear Panel






All model numbers, specifications and prices are subject to change without notice.

# Digital Presenter

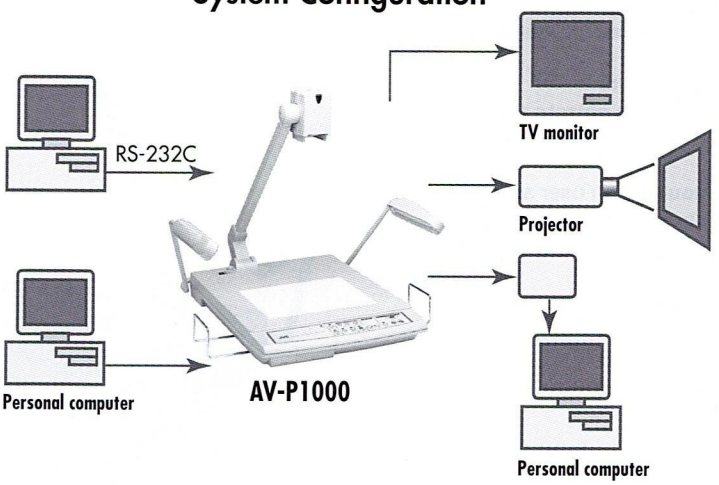
# AV-P1000E System

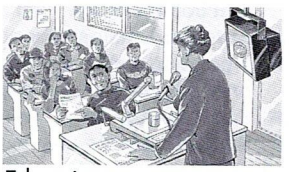


## System Configuration

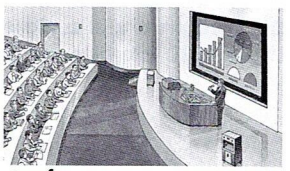
Inspection

Product presentation



Education



Conference

Teleconferencing

| GENERAL | |
|---|---|
| Power requirements | AC 220 V to 240 V, 50/60 Hz |
| Power consumption | 1 A |
| Operating temperature | 5°C to 40°C (41°F to 104°F) |
| Humidity | 30% to 85% |
| Dimensions (WHD) | 740 x 636 x 690 mm (open) (29-3/16" x 25" x 27-3/16")<br>450 x 236 x 706 mm (closed) (17-3/4" x 9-3/10" x 27-13/16") |
| Weight | 9.2 kg (20.3 lbs.) |
| **OPTICAL** | |
| Lens | F2.9 to F3.1, f = 6.4 mm to 32 mm (5x zoom) |
| Shooting area | 350 x 260 mm max. (13-13/16" x 10-1/4")<br>75 x 56 mm min. (3-1/16" x 2-1/4") |
| Focal distance | 100 mm (3-15/16") above the platform surface (with close-up lens)<br>∞to 0.8 m (2.6 ft) (without close-up lens) |
| Zoom | Motorized (user control) |
| Focus | Auto/Motorized |
| Iris | Auto (with fine-tuning)/manual |
| **LIGHTING** | |
| Side lamp | 2 x 6 W (fluorescent) |
| Backlight panel | 2 x 6 W (fluorescent) |
| Backlit area | A4 size, horizontal 297 x 211 mm (11.7" x 8.3") |

| CAMERA HEAD | | | |
|---|---|---|---|
| Image pickup device | 1/2.7" interline-transfer CCD | | |
| Total number of pixels | 1,300,000 | | |
| Crawler frequency | RGB output | H | V |
| | 1280 x 960 | 64.0 kHz | 60.0 Hz |
| | 1024 x 768 | 48.4 kHz | 60.0 Hz |
| | 800 x 600 | 37.9 kHz | 60.3 Hz |
| | 640 x 480 | 31.5 kHz | 59.9 Hz |
| | Video output | | |
| | PAL | 15.75 kHz | 50Hz |
| White balance | Auto (with fine tuning)/manual | | |
| Contour correction | Available | | |
| Colour/monochrome selection | Yes | | |
| Input select | Camera/PC | | |
| **INPUT/OUTPUT** | | | |
| Input terminals | | | |
| PC : | D-sub 15-pin x 1, | | |
| RS-232C : | D-sub 9-pin x 1 | | |
| Output terminals | | | |
| RGB : | D-sub 15pin x ,BNC x 1 set, | | |
| Video : | RCA x 1 | | |
| DC : | 12 V socket x 1 | | |
| **ACCESSORIES** | | | |
| Provided | Instruction manual x 1, power cable x 2, wireless remote control x 1, "AA" battery x 2 | | |
| Option | 4" LCD colour monitor with bracket (TA-AV-Z7U) | | |

All model numbers, specifications and prices are subject to change without notice.

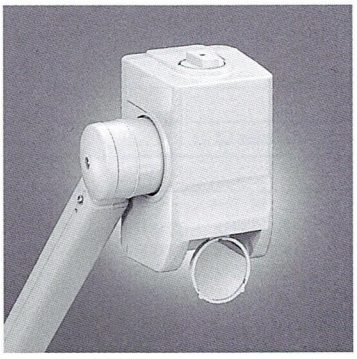
# Visual Presenter

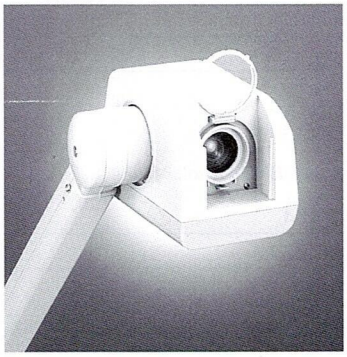
## AV-P750E



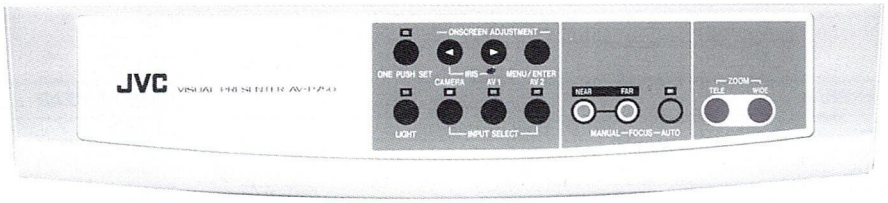
- 12X power zoom lens lets you enlarge or reduce documentation continuously, from 35 mm slide films to B4 size paper.
- Auto-focus helps user concentrate on presentation
- 5-position camera arm and camera head rotation helps to present objects from any angle
- Full flat stage for large and wide objects
- Camera panning displays surrounding objects such as materials on wall, or even objects in conference hall
- 35-mm slide holder
- Microphone and audio jacks mounted on user side
- RS-232C interface and comprehensive inputs + outputs

**Camera Panning**

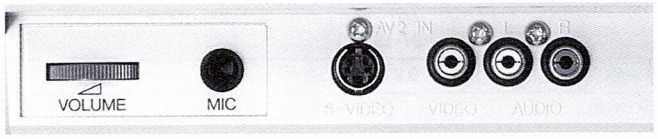




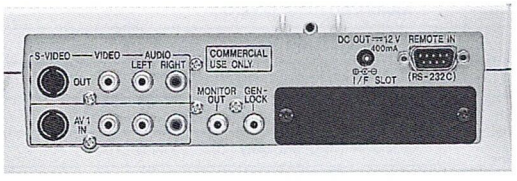
**Control Panel**




**Front Panel**




**Rear Panel**





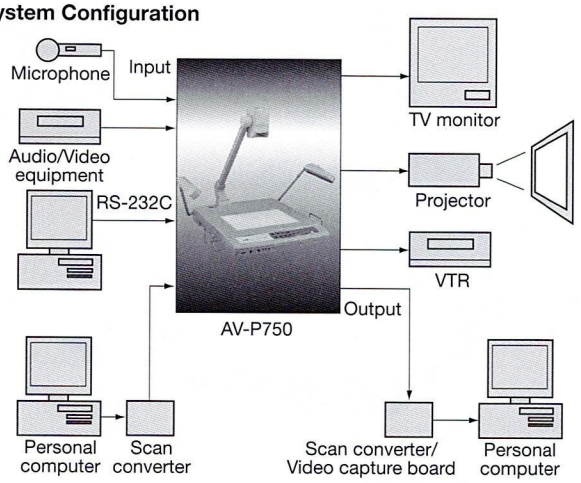

All model numbers, specifications and prices are subject to change without notice.

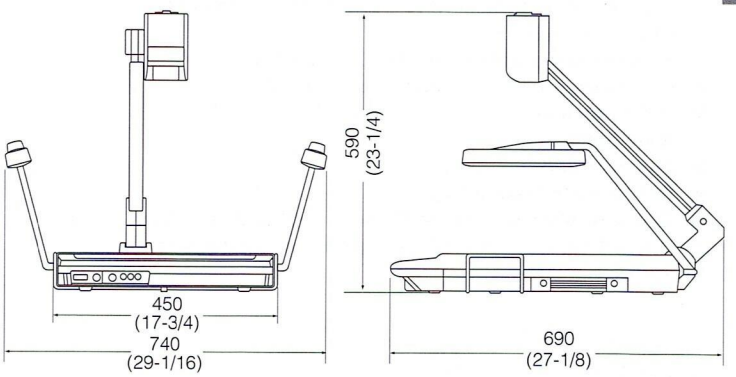
# Visual Presenter

# AV-P750E



### System Configuration




Unit:mm (inches)

| | |
|---|---|
| **GENERAL** | |
| Power requirements | 220 - 240 V AC, 50/60 Hz |
| Power consumption | 0.35 A |
| Dimensions | Open: 740 (W) x 590 (H) x 690 (D) mm<br>(29-1/16" x 23-1/4" x 27-1/8")<br>Closed: 450 (W) x 225 (H) x 650 (D) mm<br>(17-3/4" x 8-7/8" x 25-5/8") |
| Weight | 10 kg (22.1 lbs.) |
| **OPTICAL** | |
| Lens | F1.6 f = 4.0 - 48 mm (12x) |
| Shooting area | 350 x 260 mm max. (100% scan)<br>29 x 22 mm min.<br>13-13/16 x 10-1/4 inches max. (100% scan)<br>1-3/16 x 7/8 inches min. |
| Focal distance | 90 mm (3-9/16 inches) above the platform surface (with close-up lens)<br>∞to1.0 m (3.3 ft.) (without close-up lens) |
| Zoom | Motorised (user control) |
| Focus | Auto/Motorised |
| Iris | Auto (with fine-tuning)/Manual |
| **LIGHTING** | |
| Side lamp | 2 x 6 W (inverter lighting) |
| Backlight panel | 2 x 6 W (inverter lighting, area size is A4 horizontal) |
| **CAMERA HEAD** | |
| Television system | PAL |
| Image pickup device | 1/4" interline-transfer CCD |
| Total number of pixels | 470,000 |
| Synchronisation system | Internal/external auto-select |
| Horizontal resolution | 450 TV lines (Y signal) |
| Vertical resolution | More than 400 TV lines |
| S/N ratio | More than 46 dB |
| Electronic shutter | 1/50, 1/120 |

| | |
|---|---|
| White balance | Full-auto/One-push set/Manual |
| AGC | ON, OFF |
| Contour correction | Available |
| Gamma correction | ON, OFF |
| Negative/Positive inversion | Yes |
| BW/Colour selection | Yes |
| Input select | Camera/AV1/AV2 |
| **INPUT/OUTPUT** | |
| Input terminals | |
| Composite video | RCA jack x 2 (1 V (p-p), 75 ohms) |
| S-Video | Mini DIN 4-pin x 2<br>(Y: 1 V (p-p), 75 ohms)<br>(C: 0.3 V (p-p), 75 ohms) |
| Audio (stereo) | RCA jack x 2 pairs<br>(-10 dBs, 10 kohms or more) |
| Microphone (mono) | Phone jack x 1 (-60 dBs, 600 ohms) |
| External sync input | RCA jack x 1 (1 V (p-p), 75 ohms) |
| Output terminals | |
| Composite video/Monitor | RCA jack x 2 (1 V (p-p), 75 ohms) |
| S-Video | Mini DIN 4-pin x 1<br>(Y: 1 V (p-p), 75 ohms)<br>(C: 0.3 V (p-p), 75 ohms) |
| Audio (stereo) | RCA x 1 pair<br>(-10 dBs, 200 ohms) |
| DC output | DC jack x 1 (DC 12 V) for LCD monitor |
| Control terminals | |
| External remote control | D-sub 9-pin x 1 (RS-232C) |
| **ENVIRONMENTAL CONDITIONS** | |
| Temperature | 5°C to 40°C (41°F to 104°F) |
| Humidity | 30% to 85% |
| **ACCESSORIES** (provided as standard) | Video cable (5 m) x 1<br>Instruction manual x 1<br>RS-232C control commands x 1<br>Main cord x 1 |
| **OPTICAL ACCESSORY** | LCD monitor (TA-AV-Z7U) |

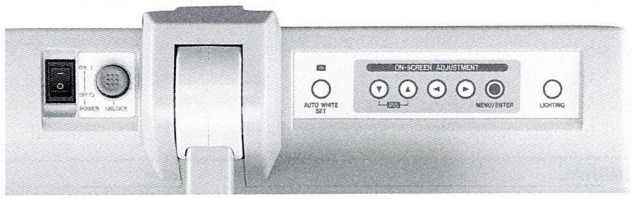
All model numbers, specifications and prices are subject to change without notice.

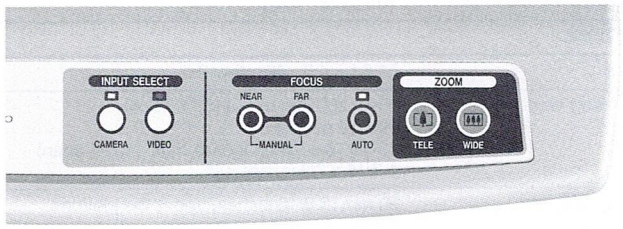
# Visual Presenter

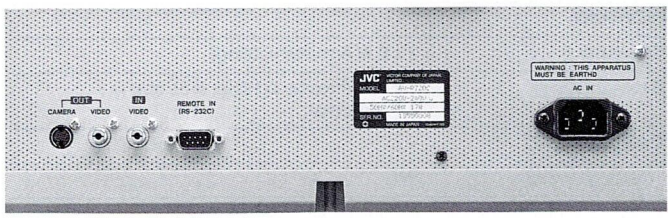
## AV-P720E



- **LCS (Light Control Screen)**
  **Eliminates uneven light distribution (patent pending) and suppresses excess light to ensure comfortable, easy-on-the-eyes operation**
- **High picture quality with 470,000-pixel 1/4" CCD**
- **On-screen menu for operational simplicity**
- **12x zoom lens**
- **Slide holder**
- **Camera head rotation control**
- **Flip-type close-up lens**
- **Single bright light-source for both OHP and slide film**
- **One AV input for easy video equipment connection**
- **RS-232C interface**




| GENERAL | |
|---|---|
| Power requirements | AC 220 V to 240 V, 50/60 Hz |
| Power consumption | 17 W |
| Operating temperature | 5°C to 40°C (41°F to 104°F) |
| Humidity | 30% to 85% |
| Dimensions (WHD) | 450 x 585 x 605 mm (open)<br>450 x 230 x 605 mm (closed) |
| Weight | 5.9 kg |
| **OPTICAL** | |
| Lens | F1.6 to F2.6, f = 4.0 mm to 48 mm |
| Shooting area | 350 x 260 mm max.<br>29 x 22 mm min. |
| Focal distance | 90 mm above the platform surface (with close-up lens)<br>∞ to 0.9 m (without close-up lens) |
| Zoom control | Motorized (user control) |
| Iris | Auto/manual |
| **LIGHTING** | |
| Center light | 1 x 6 W (fluorescent) |
| **CAMERA HEAD** | |
| Television system | PAL |
| Image pickup device | 1/4" interline-transfer CCD |
| Total number of pixels | 470,000 |
| Synchronization system | Internal |
| Horizontal resolution | 450 TV lines (Y signal) |
| Vertical resolution | More than 400 TV lines |
| S/N ratio | More than 46 dB |
| White balance | Auto/Auto White Set/manual |
| AGC | ON, OFF |
| Contour correction | Available |
| Gamma correction | ON, OFF |
| Negative/positive inversion | Yes |
| BW/colour selection | Yes |
| **INPUT/OUTPUT** | |
| Input connectors | Composite video: RCA pin x 1,<br>RS-232C: D-SUB 9-pin x 1 |
| Output connectors | Composite video: RCA pin x 1,<br>S-video: Mini DIN 4P x 1 |

| ACCESSORIES | |
|---|---|
| Provided | Video cable (5 m) x 1, instruction manual x 1, power cable x 1 |



All model numbers, specifications and prices are subject to change without notice.

# 16:9 Plasma Display Monitor

## GD-V4210PCE (class A)/GD-V4211PCE (class B) 42"



**Thin and Light; easy to mount at space saving locations or free-standing**

- Only 8.9 cm (3.5 inches) deep.
- 35.8 kg less than half the weight of an equivalent size CRT
- GD-V4210PCE meets class A industrial use specifications for EMC (electromagnetic interference and resistance between electronic devices) and GD-V4211PCE meets the stricter class B EMC specifications for home use.

**Vivid and natural high quality images**

- Super bright images of 350 cd/m² (GD-V4210PCE) and 310 cd/m² (GD-V4211PCE)
- Full 256 levels for each RGB colour, for a total of 16.77 million colours.
- Contrast ratio greater than 700:1
- Accepts video pictures in NTSC, PAL, SECAM and DTV 480p, 480i, 720p and 1080i with an optional board.
- Accepts multimedia images in "Wide VGA (853 x 480)", VGA, SVGA and XGA modes (SVGA/XGA compression)
- Wide range of signal frequencies;
  Horizontal: 15.625 to 56.48 kHz
  Vertical: 50 to 75 kHz
- Non-interlace display technology minimises eye strain with flicker free images
- Wide 160 degree horizonal and vertical viewing angles with uniform pictures to the very corner of the display
- Plasma system is immune to picture distortion from electromagnetic fields in devices like audio speakers.

**Wide range of useful functions**

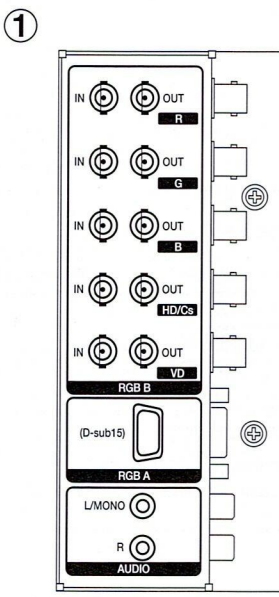
- SVGA, XGA, 720p and PAL/SECAM images automatically converted for display.
- Selectable widescreen modes: standard and expanded 640 x 480, normal 4:3, Auto detect, Uniform centre, vertical shift and squeeze for captions, zoom and horizontal zoom
- Multilink remote control system allows multiple displays to be linked one to the next and controlled independently or simultaneously
- RS-232C control
- Colour temperature adjustable
- White balance adjustable
- Power for external speakers

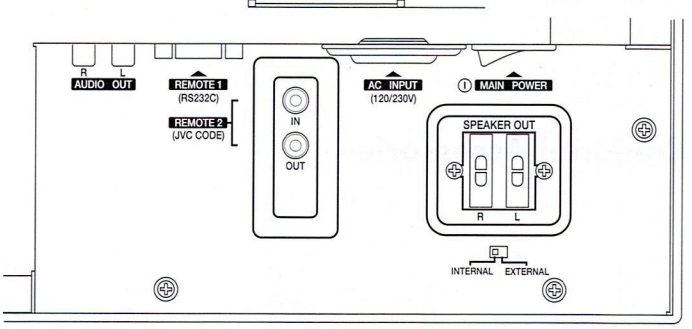
**Easy maintenance**

- Refresh mode of "All White Pattern" display mode easily eliminates after- images.
- Pixel Shift mode scrolls image in 4 directions after a selectable interval for persistence-free display of still images for long periods of time.
- Colour Reverse mode to minimise memory effect from static picture display.
- Coded signs from Self-diagnosis LED identify service issues.

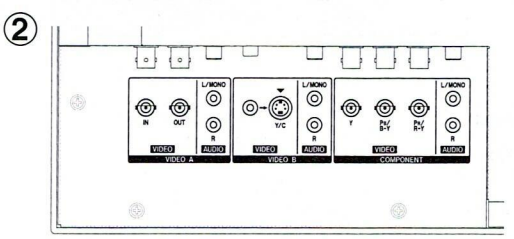
**Accessories**

- Desk stand
- Wall mount variable: 0 to 15° / 0° only
- Suspended mount: 0 to 15°




Rear




IF-C421P1W (option)

All model numbers, specifications and prices are subject to change without notice.

JVC PROFESSIONAL

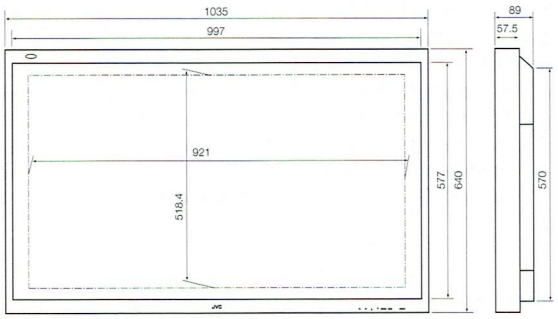
# 16:9 Plasma Display Monitor

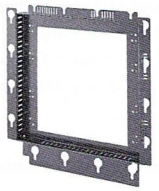
## GD-V4210PCE (class A)/GD-V4211PCE (class B) 42"



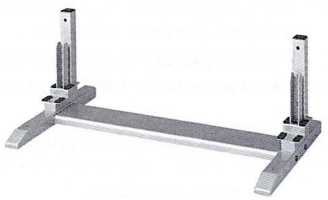
| | | |
|---|---|---|
| Screen size | 921 (W) x 518.4 (H) mm (36-1/8" x 20-7/16")<br>(wide 42-inch diagonal) | |
| Aspect ratio | 16:9 wide (width-to-height ratio of screen), 4:3/16:9 selectable | |
| Viewing angle | 160° | |
| Display colours | 16,770,000 (RGB each of 256 levels) | |
| Brightness | 350 cd/m² (GD-V4210PCE)<br>310 cd/m² (GD-V4211PCE) | |
| Resolution (H x V) | 640 x 480 (4:3)<br>853 x 480 (16:9)<br>SVGA:800 x 600<br>(displayed at 640 x 480 /853 x 480)<br>XGA:1024 x 768<br>(displayed at 640 x 480 /853 x 480) | |
| No. of pixels | Horizontal 853 x Vertical 480 pixels | |
| Display modes | | |
| | Full (16 : 9) | Displays wide horizontal expansion of 4:3 PC images for full-screen display |
| | Normal | 4:3 video image displayed in centre of screen |
| | Zoom/Panorama (16 : 9) | Overall expansion of 4:3 video images for full-screen display |
| Input connectors | | |
| | Analogue RGB input (PC mini) | D-sub 15-pin (3-row) x 1,<br>Video signal: 0.7 V (p-p)/75 ohms<br>Sync signal: TTL level or 0.3 V (p-p)/75ohms |
| | Scanning frequency | Horizontal: 15.625 kHz to 56.48 kHz<br>Vertical: 50 Hz to 75 Hz |
| | Audio input | RCA pin jack x 4 (L/R)<br>500 mVrms 22 kohms min. |
| | Control signal | RS-232C D-sub 9-pin x 1 |
| Weight | 35.8 kg | |
| Power requirements | 120 V/230 V AC, 50/60 Hz | |
| Power consumption | 3.5 A (120 V) / 1.9 A (230 V) | |
| Audio output | (2 W + 2 W) for internal speakers<br>(3 W + 3 W) for external speakers | |
| Operating environment conditions | | |
| | Temperature range | 0°C to +40°C (32°F to 104°F) |
| | Humidity range | 20% to 90%, non condensation |

**Dimensions** **Unit: cm**



**TS-C420P6W**
**Wall Mounting Unit**
Dimensions:
570 (W) x 576 ( H ) x 47 (D) mm*

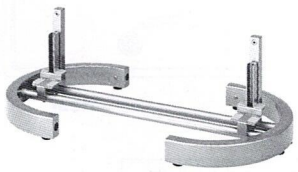


**TS-C420P7W**
**Stand Unit**
Dimensions:
574(W) x 226 ( H ) x 330 (D) mm*

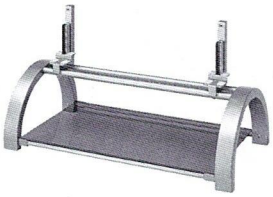
**TS-C420P3W**
**Ceiling Mounting Unit**
Mounting angle:0°,10°, 20°
Dimensions:
570 (W) x 450 ( H ) x 165 (D) mm*

**IF-C421P1W**
**Graphic Interface Board**

## Optional Accessories

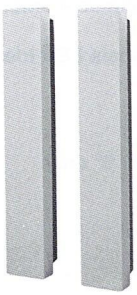


**TS-C420P4W**
**Stand Unit**
**(Vertical mode)**
Dimensions:
500 (W) x 607.2 ( H ) x 700 (D) mm



**(Horizontal mode)**
Dimensions:
700 (W) x 384.6 ( H ) x 452 (D) mm

**TS-C420P2W**
**Wall Mounting Unit**
Mounting angle:
0°, 5°, 10°, 15°
Dimensions:
494 (W) x 529 ( H ) x 47 (D) mm*



**TS-C4200SPG**
**Slim Wall-mounted**
**Speaker System**
Rated input: 8 W
Nominal impedance: 6 ohms
Dimensions:
100 (W) x 610 ( H ) x 89 (D) mm
Weight: 2.1 kg (each)
Operating conditions:
Temperature: 0° to 40°C
Humidity:
20% to 80%, no condensation
*At the mounting angle 0°

All model numbers, specifications and prices are subject to change without notice.

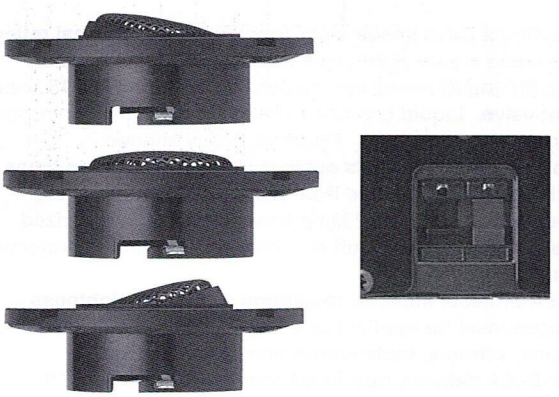
# Slim Wall-mounted Speaker System

# SP-T325

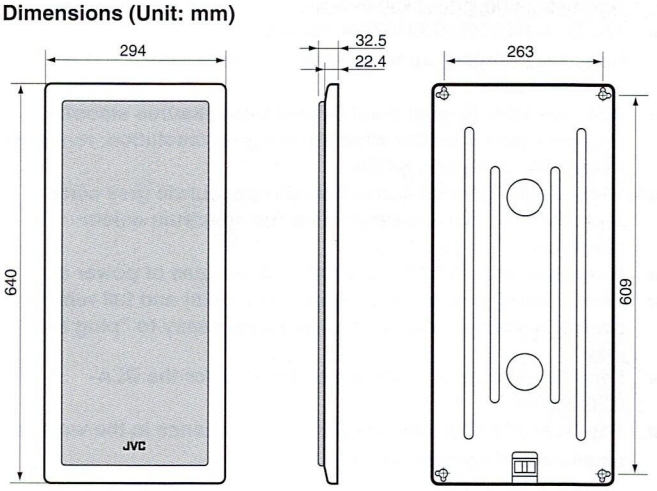


- **Superb, high-quality sound**
- **Ultra-slim speakers measure a mere 32.5 mm in depth, allowing them to be utilised in a wide variety of spaces without affecting the unique ambience of a room**
- **Maximum input of 120 W**
- **Can be combined in multiple systems to support even large screen video presentations**
- **The extra-rigid aluminium casting used in the front baffle board enhances sound reverberations**
- **The tweeter incorporates a top-quality 1-inch voice coil dome diaphragm which can be adjusted to different angles for easy directional control**
- **12-cm passive radiator the same size as the woofer is used to enhance reproduction of low frequencies**
- **12-cm woofer with repulsion magnetic circuit**

| | |
|---|---|
| Configuration | 2-way, 2-speaker, 1-passive radiator anti-magnetic system<br>Woofer: 12-cm cone<br>Tweeter: 2.5-cm dome<br>Passive radiator: 12-cm cone |
| Power handling capacity | 120 W |
| Rated input | 45 W |
| Nominal impedance | 6.0 ohms |
| Frequency response | 80 Hz to 20,000 Hz |
| Output sound pressure level<br>Crossover frequency | 87 dB ± 2 dB<br>8 kHz |
| Dimensions | 294 (W) x 640 (H) x 32.5 (D) mm<br>(11-5/8" x 25-1/4" x 1-5/16") |
| Weight | 4.9 kg (each)(10.8 lbs.) |



**Dimensions (Unit: mm)**

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JVC PROFESSIONAL

# D-ILA Video/Data/Graphics Projectors D-ILA™

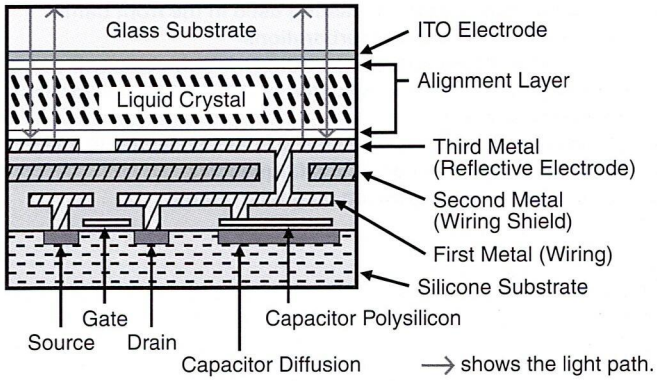
**DLA-M5000/M5000SC** 5000 ANSI lumens, Super Contrast 1000:1(M5000SC)
**DLA-M2000L** 2000 ANSI lumens, interchangeable lenses
**DLA-G3010ZGA** Small and lightweight design (6 kg)
**DLA-G20/DLA-G15** 50% offset axis, 2-3:1 zoom
**DLA-M20** 30-55% shiftable axis, 1.5:1 lens, stackable, 3D system
**DLA-C15/DLA-S15** 0% offset axis, 1:1 lens, rear projection

We have come a long way in the emerging world of digital imaging. By capturing and processing high quality pictures, we have come to expect extraordinary detail in all that we view. Digital TV will deliver life like signals at 1080i or 720p while computers create resolutions of 1280 x 1024 or higher and digital cameras measure their capacity in millions of pixels!

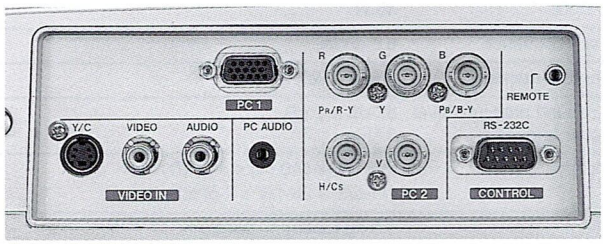
No matter how much details you have in your pictures, however, you won't be able to enjoy the quality that they provides without a technology capable of faithfully reproducing the full details of the original, without excuses. That's exactly what we at JVC have to offer.....

The D-ILA (Digital Direct Drive Image Light Amplifier) technology that JVC has developed is based on an innovation in microchip design that permits the viewer to enjoy the full range of benefits from any high quality source whether from a video deck or a computer device. The D-ILA technology packs 1.4 million pixels onto a 0.9" chip at a resolution of 1365 x 1024, enabling the end user to display the full SXGA (1280 x 1024) without compressing or scaling the image which would result in lost information on the screen.

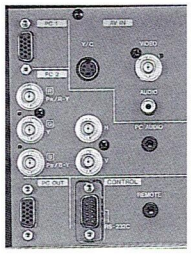
- The Direct Drive Image Light Amplifier is the original reflective liquid crystal light valve device developed by JVC. The driving IC writes the image directly on the CMOS based light valve. Liquid crystals change the reflectivity in proportion to the signal level. These vertically aligned (homeoptropic) crystals achieve very fast response times with a rise plus fall time less than 16 milliseconds. Light from the xenon or UHP lamp travels through a polarized beam splitter, reflects off the D-ILA device, and is projected onto the screen.
- D-ILA projects superior resolution and high-brightness images ideal for applications like boardrooms, conference rooms, schools, trade shows and home theatres.
- The D-ILA delivers true SXGA images at full 1280 x 1024 resolution in 5:4, or correctly scaled and seamless 1024 x 768, 800 x 600, 640 x 480 images in 4:3 ratio at 1365 x 1024.
- The DLA-M2000L/G3010ZGA covers a horizontal scanning frequency ranging up to 105 kHz, compatible with UXGA (1,600 x 1,200)
- Adaptive DPC (Digital Pixel Conversion) assures smooth, clear images no matter what input signal resolution, ranging from VGA to beyond SXGA.
- 10-bit digital gamma correction gives accurate grey scale reproduction, and is essential for full spectrum colour rendition
- Projectors are ready for use within 2 minutes of power on.
- Power focus, power zoom (specific models) and full remote control make D-ILA projectors extremely easy to "plug and play".
- Lamp is user replaceable (from the front for the DLA-G3010ZGA)
- The DLA-G3010ZGA offers SXGA performance in the world's smallest and lightest package.



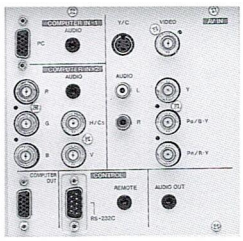

**Connectors**



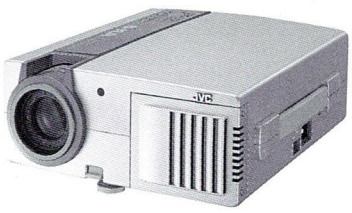

DLA-G3010ZGA



DLA-M2000L



DLA-M20



DLA-G3010ZGA

DLA-M2000L



All model numbers, specifications and prices are subject to change without notice.

# Throw Distance vs Screen Width

D-ILA™



## DLA-M5000/M5000SC

With GL-M4015S 1.5:1 Fixed lens
Recommended screen size: 70" – 200" (4:3 aspect ratio)

| Screen Size (Diagonally) | (inches) | 65 | 100 | 150 | 200 | 250 |
|---|---|---|---|---|---|---|
| (Width) | (m) | 1.32 | 2.03 | 3.05 | 4.06 | 5.08 |
| | (ft) | 4.33 | 6.66 | 10.00 | 13.32 | 16.66 |
| Throw Distance | (m) | 1.97 | 3.08 | 4.66 | 6.24 | 7.83 |
| | (ft) | 6.46 | 10.10 | 15.29 | 20.47 | 25.69 |

With GL-M4023SZ 2.3x (3:1 – 7:1) Zoom lens
Recommended screen size: 60" – 300" (4:3 aspect ratio)

| Screen Size (Diagonally) | | (inches) | 80 | 160 | 200 | 300 | 600 |
|---|---|---|---|---|---|---|---|
| (Width) | | (m) | 1.63 | 3.25 | 4.06 | 6.10 | 12.20 |
| | | (ft) | 5.33 | 10.66 | 13.32 | 20.01 | 40.02 |
| Throw | Tele | (m) | 11.50 | 22.87 | 28.56 | 42.79 | — |
| Distance | | (ft) | 37.73 | 75.03 | 93.70 | 140.39 | — |
| | Wide | (m) | 5.06 | 10.00 | 12.47 | 18.65 | 37.19 |
| | | (ft) | 16.60 | 32.81 | 40.91 | 61.19 | 122.01 |

With GL-M4010G 1:1 Fixed lens
Recommended screen size: 85" – 150" (4:3 aspect ratio)

| Screen Size (Diagonally) | (inches) | 80 | 100 | 120 | 150 | 200 |
|---|---|---|---|---|---|---|
| (Width) | (m) | 1.63 | 2.03 | 2.44 | 3.05 | 4.06 |
| | (ft) | 5.33 | 6.66 | 8.00 | 10.00 | 13.32 |
| Throw Distance | (m) | 1.54 | 1.95 | 2.37 | 2.99 | 4.03 |
| | (ft) | 5.05 | 6.40 | 7.77 | 9.81 | 13.22 |

## DLA-M2000L

**DLA-G20 Throw Distance vs. Screen Width**

| Screen Size (Diagonally) | | (inches) | 70 | 100 | 150 | 200 | 300 |
|---|---|---|---|---|---|---|---|
| (Width) | | (m) | 1.42 | 2.03 | 3.05 | 4.06 | 6.10 |
| | | (ft) | 4.66 | 6.66 | 10.00 | 13.32 | 20.01 |
| Throw | Tele | (m) | 4.13 | 5.86 | 8.75 | 11.63 | 17.40 |
| Distance | | (ft) | 13.55 | 19.22 | 28.70 | 38.15 | 57.07 |
| | Wide | (m) | 2.77 | 3.91 | 5.82 | 7.72 | 11.54 |

**With GL-M2930ZG Zoom (2.9 : 1 - 5.5 : 1)**

| Screen Size (Diagonally) | | (inches) | 80 | 160 | 200 | 270 | 400 |
|---|---|---|---|---|---|---|---|
| (Width) | | (m) | 1.63 | 3.25 | 4.06 | 5.49 | 8.12 |
| | | (ft) | 5.33 | 10.66 | 13.82 | 18.00 | 26.64 |
| Throw | Tele | (m) | 8.93 | 17.74 | 22.15 | 29.87 | — |
| Distance | | (ft) | 29.30 | 58.20 | 72.67 | 98.00 | — |
| | Wide | (m) | 4.74 | 9.38 | 11.70 | 15.75 | 23.28 |
| | | (ft) | 15.55 | 30.77 | 38.39 | 51.67 | 76.38 |

**With GL-M2915SG 1.5 : 1 Fixed lens**

| Screen Size (Diagonally) | (inches) | 60 | 80 | 100 | 120 | 150 |
|---|---|---|---|---|---|---|
| (Width) | (m) | 1.22 | 1.63 | 2.03 | 2.44 | 3.05 |
| | (ft) | 4.00 | 5.33 | 6.66 | 8.00 | 10.00 |
| Throw Distance | (m) | 1.76 | 2.37 | 2.98 | 3.59 | 4.50 |
| | (ft) | 5.77 | 7.77 | 9.77 | 11.76 | 14.76 |

**With GL-M2910G 1 : 1 Fixed lens**

| Screen Size (Diagonally) | (inches) | 40 | 80 | 100 | 120 | 200 |
|---|---|---|---|---|---|---|
| (Width) | (m) | 0.81 | 1.63 | 2.03 | 2.44 | 4.06 |
| | (ft) | 2.66 | 5.33 | 6.66 | 8.00 | 13.32 |
| Throw | (m) | 0.77 | 1.58 | 1.99 | 2.40 | 4.03 |
| Distance | (ft) | 2.53 | 5.18 | 6.53 | 7.87 | 13.22 |

## DLA-G3010ZGA

| Screen Size (Diagonally) | | (inches) | 55 | 80 | 100 | 150 | 200 |
|---|---|---|---|---|---|---|---|
| (Width) | | (m) | 0.85 | 1.63 | 2.03 | 3.05 | 4.06 |
| | | (ft) | 2.79 | 5.33 | 6.66 | 10.00 | 13.32 |
| Throw | Tele | (m) | 2.68 | 3.93 | 4.93 | 7.42 | 9.92 |
| Distance | | (ft) | 8.79 | 12.86 | 16.17 | 24.34 | 32.54 |
| | Wide | (m) | 2.07 | 3.04 | 3.82 | 5.76 | 7.70 |
| | | (ft) | 6.79 | 13.71 | 12.53 | 18.89 | 25.26 |

## DLA-G15

| Screen Size (Diagonally) | | (inches) | 70 | 100 | 120 | 150 | 200 |
|---|---|---|---|---|---|---|---|
| (Width) | | (m) | 1.42 | 2.03 | 2.44 | 3.05 | 4.06 |
| | | (ft) | 4.66 | 6.66 | 8.00 | 10.00 | 13.32 |
| Throw | Tele | (m) | 4.13 | 5.86 | 7.01 | 8.75 | 11.63 |
| Distance | | (ft) | 13.55 | 19.22 | 22.99 | 28.70 | 38.15 |
| | Wide | (m) | 2.77 | 3.91 | 4.57 | 5.82 | 7.72 |
| | | (ft) | 9.09 | 12.82 | 14.99 | 19.09 | 25.32 |

## DLA-M20

| Screen Size (Diagonally) | (inches) | 60 | 80 | 100 | 120 | 150 |
|---|---|---|---|---|---|---|
| (Width) | (m) | 1.22 | 1.63 | 2.03 | 2.44 | 3.05 |
| | (ft) | 4.00 | 5.33 | 6.66 | 8.00 | 10.00 |
| Throw Distance | (m) | 1.76 | 2.37 | 2.98 | 3.59 | 4.50 |
| | (ft) | 5.77 | 7.77 | 9.77 | 11.76 | 14.76 |

## DLA-G20

| Screen Size (Diagonally) | | (inches) | 70 | 100 | 150 | 200 | 300 |
|---|---|---|---|---|---|---|---|
| (Width) | | (m) | 1.42 | 2.03 | 3.05 | 4.06 | 6.10 |
| | | (ft) | 4.66 | 6.66 | 10.00 | 13.32 | 20.01 |
| Throw | Tele | (m) | 4.13 | 5.86 | 8.75 | 11.63 | 17.40 |
| Distance | | (ft) | 13.55 | 19.22 | 28.70 | 38.15 | 57.07 |
| | Wide | (m) | 2.77 | 3.91 | 5.82 | 7.72 | 11.54 |
| | | (ft) | 9.09 | 12.82 | 19.09 | 25.32 | 37.85 |

## DLA-C15

| Screen Size (Diagonally) | (inches) | 40 | 80 | 100 | 120 | 200 |
|---|---|---|---|---|---|---|
| (Width) | (m) | 0.81 | 1.63 | 2.03 | 2.44 | 4.06 |
| | (ft) | 2.66 | 5.33 | 6.66 | 8.00 | 13.32 |
| Throw | (m) | 0.77 | 1.58 | 1.99 | 2.40 | 4.03 |
| Distance | (ft) | 2.53 | 5.18 | 6.53 | 7.87 | 13.22 |

## DLA-S15

| Screen Size (Diagonally) | (inches) | 40 | 80 | 100 | 120 | 200 |
|---|---|---|---|---|---|---|
| (Width) | (m) | 0.81 | 1.63 | 2.03 | 2.44 | 4.06 |
| | (ft) | 2.66 | 5.33 | 6.66 | 8.00 | 13.32 |
| Throw | (m) | 0.76 | 1.56 | 1.97 | 2.37 | 3.98 |
| Distance | (ft) | 2.49 | 5.12 | 6.46 | 7.76 | 13.06 |

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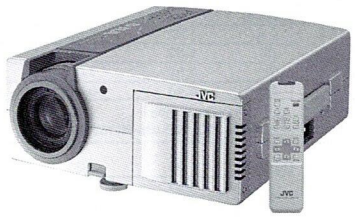
# Specifications comparison

## DLA-M5000/M5000SC

**5000 ANSI lumens, 600" large screen projection, 3 - 7:1 wide range zoom, 1.5:1 fixed lens, and 1: 1 fixed lens (optional)**

## DLA-M2000L

**2000 ANSI lumens, 2:1 - 3:1 zoom, 2.9:1 -5.5:1 long throw zoom, 1.5 : 1 fixed lens, 1:1 fixed lens (optional)**



## DLA-G3010ZGA

**1 PBS optical engine, small and lightweight design (6 kg), 1.9 to 2.5:1 telephoto zoom**

| | | | |
|---|---|---|---|
| **Image Device** | 3 D-ILA (0.9 inches diagonal) | ← | ← |
| **Projection Lens** | Optional<br>3:1 – 7:1 zoom<br>(V) ±50% motorised shift<br>(H) ±32% manual shift<br>1.5:1 lens<br>(V) ±50% motorised shift<br>(H) ±32% manual shift<br>1:1 lens | Optional<br>(GL-M2920ZG) 2:1-3:1 zoom,<br>50% off axis<br>(GL-M2930SZG) 2.9:1 -5.5:1 zoom,<br>30%-55% manual shift<br>(GL-M2915SG) 1.5:1 lens fixed,<br>30%-55% manual shift<br>(GL-M2910G) 1:1 lens fixed, 0% on axis | 1.9 : 1 – 2.5 : 1<br>(Throw distance: Screen width)<br>F3,6, manual zoom / focus,<br>50% off-axis |
| **Brightness** | 5,000 ANSI lumens | 2,000 ANSI lumens | 1300 ANSI lumens |
| **Resolution** | 1,365 x 1,024 pixels<br>(full coverage of S-XGA<br>(1,280 x 1,024) graphics<br>(S-XGA, XGA, S-VGA, VGA) | Up to 1,600 x 1,200<br>(compression of UXGA)<br>1,365 x 1,024 pixels<br>(full coverage of S-XGA<br>(1,280 x 1,024) graphics<br>(S-XGA, XGA, S-VGA, VGA) | ← |
| **Contrast Ratio** | 1000:1(M5000SC) 350:1(M5000) | 350:1 | |
| **Scan Frequency** | Horizontal: 15 – 82 kHz<br>Vertical: 50 – 78 Hz | Horizontal: 15 – 105 kHz<br>Vertical: 50 – 90 Hz | ← |
| **Input** | Analogue RGB x 2<br>(D-Sub (female) x 1, R,G,B,H,V x 1)<br>Component x 1 (Y/R-Y/B-Y,<br>Y/ $P_B$/ $P_R$) | Analogue RGB x 2<br>(D-Sub (female) x 1, R,G,B,H,V x 1)<br>Component x 1 (Y/R-Y/B-Y,Y/ $P_B$/ $P_R$)<br>Y/C separated x 1<br>Composite x 1 | Analogue RGB x 2<br>(D-Sub (female) x 1,<br>R,G,B,H,V x 1<br>Composite x 1<br>Component x 1(Y/ $P_B$/ $P_R$)<br>S-Video x 1<br>(1RGBHV and 1Component inputs use a common connector.) |
| **Output** | PC Monitor: D-sub (female) | ← | – |
| **Throw Distance** | (3:1 – 7:1 zoom): 5.1 m – 42.7 m (16.6 – 140 ft)<br>(1.5:1): 2.0 m – 7.8 m (6.5 – 25.7 ft)<br>(1:1): 1.6 m – 4.0 m (5.1 – 13.2 ft) | (2:1 – 3:1 zoom) 2.5 m-20 m (8.2 ft – 65.6 ft)<br>(2.9:1 – 5.5:1 zoom) 4.52 m – 29.87 m (14.83 ft – 98 ft)<br>(1.5:1) : 1.76 m – 4.50 m (5.77 ft – 14.76 ft)<br>(1:1) : 0.77 m – 4.03 m (2.6 ft – 12.9 ft) | 2 m – 10 m (6.6 ft – 32.8 ft) |
| **Screen Size**<br>(mm : width)<br>(inch : diagonal, 4:3) | (3:1 – 7:1 zoom): 1,219 mm – 12,192 mm<br>(60" – 600")<br>(1.5:1): 1,321 mm – 5,080 mm<br>(65" – 250")<br>(1:1): 1,626 mm – 4,064 mm (80" – 200") | (2:1 – 3:1 zoom) : Wide: 1,280 mm – 1,059 mm (63" – 521")<br>Tele: 850 mm – 7,010 mm (42" – 345")<br>(2.9:1 – 5.5:1 zoom) : Wide: 1,630 mm – 1,036 mm (80" – 510")<br>Tele: 810 mm – 5,490 mm (40" – 270")<br>(1.5:1) : 1,220 mm – 3,050 mm (60" – 150")<br>(1:1) : 810 mm – 4,060 mm (40" – 200") | Wide: 1,118 mm – 4,064 mm<br>(55" – 200")<br>Tele: 854 mm – 4,064 mm<br>(42" – 200") |
| **Lamp** | 1.6 kW, Xenon | 550 W, Xenon | 200 W, UHP |
| **Audio** | — | Built-in speakers<br>(1 W monaural) | ← |
| **Input Power** | 200 – 240 V, 50/60 Hz AC | ← | 100-240 V, 50/60 Hz AC |
| **Dimensions**<br>**(WxHxD)** | 747 x 368 x 793 mm<br>(29.4" x 14.5" x 31.2")<br>excluding lens | 505 x 265 x 393 mm<br>(20" x 10.5" x 15.5")<br>excluding lens and upper projections | 290 x 132 x 350 mm<br>(11.4" x 5.2" x 13.8")<br>excluding lens |
| **Weight** | Approx. 71 kg (157 lbs.) excluding lens | Approx. 16.5 kg (34.32 lbs.) excluding lens | 6kg (13.2 lbs.) |
| **Provided Accessories** | Power cord, Wireless (infrared) remote control, Remote control cable, Operation manual, Battery for remote control unit x 2 | Power cord, Wireless (infrared) remote control, PC connection cable (D-sub 15 pins (male) - D-sub 15 pins (male)), Adapter for Macintosh, AV cable, Audio cable, BNC-RCA adapter, Lens cap, Operation manual, Battery for remote control unit x 2 | ← |



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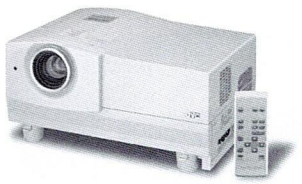
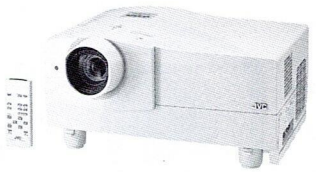
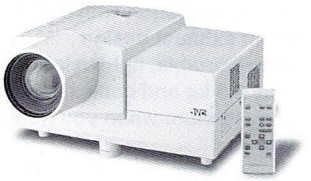


## DLA-G20
**50% offset axis, 2 - 3:1 telephoto zoom**



## DLA-M20
**30 - 55% shiftable axis, 1.5:1 (throw distance: screen width), stackable**

## DLA-G15
**50% offset axis, 2 - 3:1 telephoto zoom**



## DLA-C15/S15
**0% offset axis, 1:1 fixed wide angle, rear projection**

| ← | ← | ← | ← | |
|---|---|---|---|---|
| 2:1 – 3:1<br>(Throw distance: Screen width)<br>1.5x powered zoom, power focus,<br>50% off-axis | 1.5:1 (Throw distance: Screen width)<br>30% – 55% manual shift with fine adjustment of screen size | 2:1 – 3:1<br>(Throw distance: Screen width)<br>1.5x powered zoom, power focus,<br>50% off-axis | 1:1 (Throw distance: Screen width)<br>on axis<br>Lens distortion: 0.02% (DLA-C15)<br>(TV distortion on 70-inch diagonal screen) | |
| 2,000 ANSI lumens | ← | 1,500 ANSI lumens | ← | |
| 1,365 x 1,024 pixels<br>(full coverage of S-XGA<br>(1,280 x 1,024) graphics<br>(S-XGA, XGA, S-VGA, VGA) | ← | ← | ← | |
| More than 350:1 | ← | ← | ← | |
| Horizontal: 15 – 82 kHz<br>Vertical: 50 – 78 Hz | ← | ← | ← | |
| Analogue RGB x 2<br>(D-Sub (female) x 1,<br>R,G,B,H,V x 1)<br>Y/C separated x 1<br>Composite x 1<br>Component x 1 (Y/R-Y/B-Y,<br>Y/ $P_B$/ $P_R$) | ← | ← | ← | |
| PC Monitor: D-sub (female)<br>Audio: Stereo | ← | ← | ← | |
| 2.5 m – 20 m (8.2 ft – 65.6 ft) | 1.8 m – 4.5 m (5.8 ft – 14.9 ft) | 2.5 m – 20 m (8.2 ft – 65.6 ft) | 0.8 m – 4.0 m (2.6 ft – 12.9 ft) | |
| Wide: 1,280 mm – 10,587 mm<br>(63" – 521")<br>Tele: 854 mm – 7,011 mm<br>(42" – 345") | 1,219 mm – 3,048 mm<br>(60" – 150") | Wide: 1,280 mm – 10,587 mm<br>(63" – 521")<br>Tele: 854 mm – 7,011 mm<br>(42" – 345") | 813 mm – 4,064 mm<br>(40" – 200") | |
| 550 W, Xenon | ← | 420 W, Xenon | ← | |
| Built-in stereo speakers<br>(1 W + 1 W stereo) | ← | ← | ← | |
| 200 – 240 V, 50/60 Hz AC | ← | ← | ← | |
| 505 x 264 x 388 mm<br>(20" x 10.4" x 15.3")<br>excluding lens | 505 x 264 x 437 mm<br>(20" x 10.4" x 17.2")<br>excluding lens | 425 x 246 x 339 mm<br>(16.73" x 9.68" x 13.35")<br>excluding lens | C15: 425 x 246 x 339 mm<br>(16.73" x 9.68" x 13.35")<br>excluding lens | S15: 425 x 246 x 416 mm<br>(16.73" x 9.68" x 16.38")<br>excluding lens |
| 17.3 kg (38.1 lbs.) | 17.9 kg (39.5 lbs.) | 14.8 kg (32.6 lbs.) | C15: 15.2 kg (33.4 lbs.) | S15: 14.9 kg (32.8 lbs.) |
| ← | | ← | | |

# LCD Projector

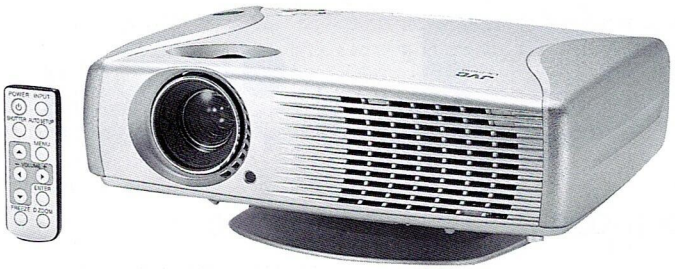
# LX-P1010Z



- **SVGA resolution with SXGA compression**
- **Front exhaust design**
- **Ultra-portable, lightweight design – the LX-P1010Z weighs only 2.5 kg and comes in a slim, easy-to-carry design so it's easy to store when you don't need it and ready to go when you do.**
- **Digital zoom magnifies a desired portion of the image up to 5 times in 5 steps (1.5x, 2x, 3x, 4x, 5x)**
- **Freeze function**
- **Screen turns blue when no signal is input**
- **Shutter function engages "mute" status to prevent redundant light from leaking onto the screen**
- **Auto setup function with keystone correction**
- **By standing the stand at the bottom of the unit, you'll not only be able to set the projector at angled position, you'll also activate the Auto Setup function. This automatically adjusts various screen position parameters including keystone correction.**
- **Manual keystone correction is also possible.**
- **The LX-P1010Z comes with a detachable swivel stand that lets you freely adjust the projector's position, ensuring stability even on an uneven surface.**
- **Digital gamma correction ensures natural colour reproduction and accurate gradation reproduction.**
- **Fully compliant with all current and proposed Digital TV standards (480i/480p/625i/720p*/1080i* format), the LX-P1010Z also features multi-system video compatibility (NTSC/PAL/SECAM/PAL-M/PAL-N/NTSC4.43)**
- **Card-type remote control**
- **Selectable 7-language on-screen menu**
- **Front exhaust design**
- **Rear screen projection**
- **4:3/16:9 screen aspect ratio selectable**
- **Carrying bag included**

**Note:**

*** Simplified reproduction only. when projecting images in the 720p or 1080i format, picture quality may deteriorate or some information may be lost because the signal is converted to fit the image within 800 x 600 pixels.**

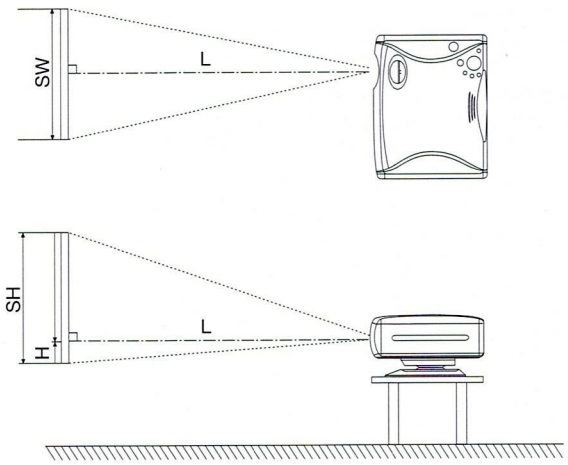


| | |
|---|---|
| LCD panel | 0.7" TFT LCD x 3 |
| Projection lens | Manual zoom (x1.3)/manual focus |
| Brightness | 700 ANSI lumens (typical) |
| Resolution | SVGA (SXGA compression) |
| Colour reproduction | 16.7 million colours |
| Keystone correction | ±15° |
| Input | RGB/Y, PB, PR (D-Sub 15-pin) x 1,<br>RCA x 1, S-video x 1 (TV signal standard: NTSC/NTSC4.43/PAL/PAL-M/PAL-N/SECAM)<br>Audio (L/R): Stereo mini-plug x 1 |
| Port | RS-232C x 1 |
| Throw distance | 1.6 - 15.7 m (5.2 - 51.0 ft) |
| Screen size | 30" - 300" (diagonal) |
| Lamp | 130 W UHM |
| Audio | Built-in stereo speaker (monaural) |
| Power requirements | AC 100 - 120/200 - 240 V (50/60 Hz) |
| Power consumption | 210 W |
| Dimensions (WHD) | 267 x 74 x 208 mm (10.5" x 2.9" x 8.2")<br>(excluding lens and base) |
| Weight | 2.5 kg (5.5 lbs.) |

## Throw distance vs. screen size

| Screen size (4:3 aspect ratio) | | | Throw distance (L) | | Height bet. lens centre and screen bottom (H) |
|---|---|---|---|---|---|
| Diagonal | Width (SW) | Height (SH) | Wide | Tele | |
| 30" | 0.61 m (2.00 ft) | 0.46 m (1.51 ft) | - | 1.6 m (5.2 ft) | 6.5 cm (2.6") |
| 40" | 0.81 m (2.66 ft) | 0.61 m (2.00 ft) | 1.6 m (5.2 ft) | 2.1 m (6.9 ft) | 8.7 cm (3.4") |
| 60" | 1.22 m (4.00 ft) | 0.91 m (2.99 ft) | 2.4 m (7.9 ft) | 3.1 m (10.2 ft) | 13.1 cm (5.2") |
| 80" | 1.63 m (5.35 ft) | 1.22 m (4.00 ft) | 3.2 m (10.5 ft) | 4.2 m (13.8 ft) | 17.4 cm (6.9") |
| 100" | 2.03 m (6.66 ft) | 1.52 m (4.99 ft) | 4.0 m (13.1 ft) | 5.2 m (17.1 ft) | 21.8 cm (8.6") |
| 200" | 4.06 m (13.32 ft) | 3.05 m (10.01 ft) | 8.1 m (26.6 ft) | 10.5 m (34.4 ft) | 43.5 cm (17.1") |
| 300" | 6.10 m (20.01 ft) | 4.57 m (14.99 ft) | 12.1 m (39.7 ft) | 15.7 m (51.5 ft) | 65.3 cm (25.7") |

Note: Ceiling mount is not possible.

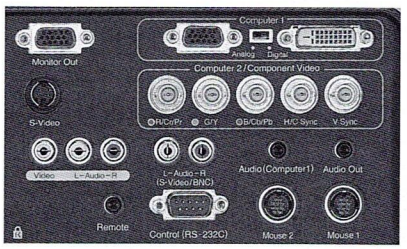





All model numbers, specifications and prices are subject to change without notice.

# LX-D3000E

- 3000 ANSI lumens of brightness
- Compact thanks to an advanced optical system with high-contrast LCD panels and micro lenses, plus a high-performance 200 W UHE lamp.
- Thanks to "true" high-resolution XGA (1024 x 768) capability and built-in resizing technology, the LX-D3000Z projector can project VGA, SVGA and XGA images.
- Advanced resizing technology allows you to project UXGA (1600 x 1200) images (compressed)
- A comprehensive set of input terminals are provided – including the new generation DVI-D digital interface – allowing you to connect everything from a computer to DVD player.
- Keystone correction for accurate projection – correct the angle of your projected images by plus or minus 30 degrees while still maintaining the correct aspect ratio.
- Picture-in-Picture function lets you display images from two different image sources – a PC and a VCR, for example – at the same time. You can move the PIP window to any corner of the screen and switch images between the main window and the PIP window at any time.
- Versatile array of "highlighters" – Choose from Pointer, Box, Underline, Marker, Spotlight or Free Line, then direct the cursor to any part of the image to underline or mark a section of text, make a box around a chart, or draw a line freehand from one point to another.
- Digital Zoom magnifies any selected area of the image by up to 4 times its original size.
- Auto Setup function
- User Logo display
- AV Mute function temporarily stops picture and sound during a presentation. Freeze function freezes the image while the audio continues.
- On-screen help function
- With self-illuminated remote, you can control cursors and mouse movement on a connected PC at a distance of up to 10 m.
- Built-in stereo speakers (3 W + 3 W)




| | |
|---|---|
| LCD panel | 1.3" TFT LCD x 3 |
| Projection lens | Manual zoom (x1.3)/manual focus |
| Brightness | 3000 ANSI lumens (typical) |
| Resolution | XGA (UXGA compression) |
| Colour reproduction | 16.7 million colours |
| Keystone correction | ±30° |
| Input | D-Sub 15-pin x 1, BNC(RGBHV/Y, $P_B$, $P_R$/Y, $C_B$, $C_R$) x 1, DVI-D x 1, RCA x 1, S-video x 1 (TV signal standard: NTSC/PAL/SECAM/NTSC4.43/ PAL-N/PALM) Audio : RCA(L/R) x 2 Stereo mini-plug x 1 RS-232C x 1 |
| Output | D-sub 15-pin x 1 Audio: Stereo mini-plug x 1 |
| Port | Mouse x 2, RS-232C x 1 |
| Throw distance | 0.8 - 14.5 m (2.6 - 47.1 ft) |
| Screen size | 22" - 300" (diagonal), 610 - 6,100 mm (width) |
| Lamp | 200 W UHE |
| Audio | Built-in stereo speaker (3 W + 3 W) |
| Power requirements | AC 100 - 120/200 - 240 V (50/60 Hz) |
| Power consumption | 285 W |
| Dimensions (WHD) | 277 x 143 x 361 mm (10.9" x 5.6" x 14.2") (excluding lens and base) |
| Weight | 6.9 kg (15.2 lbs.) |

**Optional Accessories**

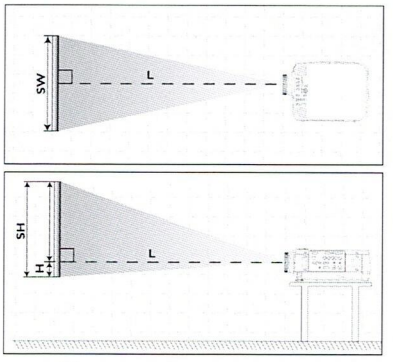
**PK-L3000LG**
**2.3 – 3.0:1**
**Long focus lens**

**PK-L3000WG**
**1.4 – 1.8:1**
**Short focus lens**

### Throw distance vs. screen size

| Screen size (4:3 aspect ratio) | | | Throw distance (L) | | | | | | Height bet. lens centre and screen bottom (H) |
|---|---|---|---|---|---|---|---|---|---|
| | | | Short-focus lens | | Short-focus lens | | Long-focus lens | | |
| Diagonal | Width (SW) | Height (SH) | Wide | Tele | Wide | Tele* | Wide | Tele | |
| 30" | 0.61 m (2.00 ft) | 0.46 m (1.51 ft) | 0.9 m (3.0 ft) | 1.0 m (3.3 ft) | 1.1 m (3.6 ft) | 1.3 m (4.3 ft) | 1.4 m (4.6 ft) | 1.7 m (5.6 ft) | 2.3 cm (0.9") |
| 40" | 0.81 m (2.66 ft) | 0.61 m (2.00 ft) | 1.2 m (3.9 ft) | 1.4 m (4.6 ft) | 1.5 m (5.9 ft) | 1.8 m (5.9 ft) | 1.9 m (6.2 ft) | 2.4 m (7.9 ft) | 3.0 cm (1.2") |
| 60" | 1.22 m (4.00 ft) | 0.91 m (2.99 ft) | 1.7 m (5.6 ft) | 2.1 m (6.9 ft) | 2.2 m (7.2 ft) | 2.8 m (9.2 ft) | 2.9 m (9.5 ft) | 3.6 m (11.8 ft) | 4.6 cm (1.8") |
| 80" | 1.63 m (5.35 ft) | 1.22 m (4.00 ft) | 2.3 m (7.5 ft) | 2.9 m (9.5 ft) | 3.0 m (9.8 ft) | 3.8 m (12.5 ft) | 3.9 m (12.8 ft) | 4.9 m (16.1 ft) | 6.1 cm (2.4") |
| 100" | 2.03 m (6.66 ft) | 1.52 m (4.99 ft) | 2.9 m (9.5 ft) | 3.6 m (11.8 ft) | 3.7 m (12.1 ft) | 4.8 m (15.7 ft) | 4.9 m (16.1 ft) | 6.2 m (20.3 ft) | 7.6 cm (3.0") |
| 200" | 4.06 m (13.32 ft) | 3.05 m (10.01 ft) | 5.7 m (18.7 ft) | 7.3 m (24.0 ft) | 7.4 m (24.3 ft) | 9.7 m (31.8 ft) | 9.8 m (32.2 ft) | 12.5 m (41.0 ft) | 15.2 cm (6.0") |
| 300" | 6.10 m (20.01 ft) | 4.57 m (14.99 ft) | 8.6 m (28.2 ft) | 10.9 m (35.8 ft) | 11.2 m (36.7 ft) | 14.5 m (47.6 ft) | 14.7 m (48.2 ft) | 18.9 m (62.0 ft) | 22.9 cm (9.0") |

* With the standard lens, 22" screen size is also possible for minimum size projection with a throw distance of 0.8 m (2.6 ft).

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JVC PROFESSIONAL

# Storage and Network Systems



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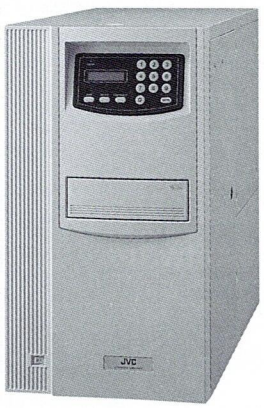
# Optical Disc Library

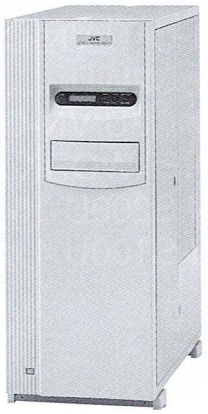
## MC-2000U Series for CD-R, DVD-ROM and CD-ROM



- High capacity "Juke Boxes" for data recording and playback over the network
- Rugged and Reliable with fast disc exchange times
- Optimised acceleration/deceleration of robotics
- Simultaneous CD recording
- 50-disc interchangeable magazines for bulk loading, with magazine access sensor
- Mail slot for single disc loading/unloading
- Modular component design
- Three independent SCSI ports
- 8x speed record, 20x play CD-R recording drive, ready for packet writing
- 32x speed CD-ROM drive
- 4x DVD-ROM drive with 24x CD play
- Airtight cabinet/housing
- Internal air filtration system
- Diagnostic mode for local use or remote dial-up (RS-232C)
- Colour disc printer option for CD jukeboxes
- Seamless data recording and disc printing
- Printer resolution 720 dpi



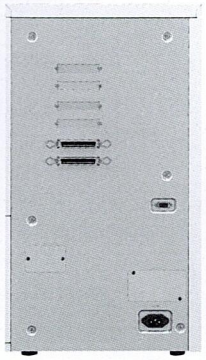
**MC-2100U**
- 100-disc capacity
- Up to 4 drives configuration
- 2.5 million swap cycles (MSBF)
- 2 second disc loading time



**MC-2200U**
- 200-disc capacity
- Up to 6 drives configuration
- 2.5 million swap cycles (MSBF)
- 3.5 second disc loading time

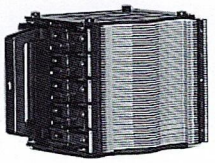
**MC-2600U**
- 600-disc capacity
- Up to 6 drives configuration
- 2.5 million swap cycles (MSBF)
- 4.0 second disc loading time

**Rear panels**



MC-2100U

MC-2200U/2600U



**MC-M25U 50 disc magazine**

**Optional accessories**

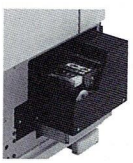
MC-M25U Magazine
MC-D104 DVD-ROM Drive
MC-D32U CD-ROM Reader
MC-R18U CD-R Writer

All model numbers, specifications and prices are subject to change without notice.

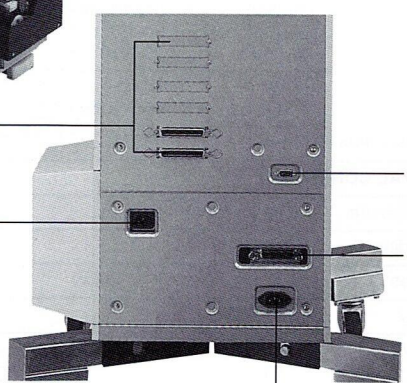
# Optical Disc Library with Built-in Colour Disc Printer

# MC-2000PU Series for CD-R

MC-2100PU shown



Disc printer


Three independent SCSI ports
AC inlet for disc printer
Diagnostic RS-232C port
Disc printer connector (Parallel port)
AC inlet for Library

| | MC-2100U | MC-2200U | MC-2600U |
|---|---|---|---|
| **GENERAL** | | | |
| Storage capacity | 65 GB (CD)<br>470 GB (DVD-ROM) | 130 GB (CD)<br>940 GB (DVD-ROM) | 390 GB (CD)<br>282 TB (DVD-ROM) |
| Disc capacity | 100 discs | 200 discs | 600 discs |
| Drive configuration | Up to 4 drives | Up to 6 drives | Up to 6 drives |
| SCSI interface | SCSI-2 (Drives and Robotics) | | |
| SCSI ID | Individually set for each drive and the robotics | | |
| SCSI connector interface | Six 50-pin female centronics | | |
| Average disc load time | 2 seconds | 3.5 seconds | 4 seconds |
| **PHYSICAL CHARACTERISTICS** | | | |
| Power requirements | 120 to 240 V AC, 50/60 Hz universal power supply | | |
| MSBF | 2.5 million swap cycles | 2.5 million swap cycles | 2.5 million swap cycles |
| Dimensions | 340 (W) x 616 (H) x 670 (D) mm<br>(13-7/16" x 24-5/16" x 26-7/16") | 350 (W) x 866 (H) x 670 (D) mm<br>(13-13/16" x 34-1/8" x 26-7/16") | 777 (W) x 1640.6 (H) x 807 (D) mm<br>(30-5/8" x 64-5/8" x 31-13/16") |
| Weight | 46 kg (101.7 lbs.) | 66 kg (147 lbs.) | 106 kg (240.3 lbs.) |
| Power consumption (Max.) | 60 W | 70 W | 100 W |
| Applicable standards | CE, TUV/GS, UL, CSA and FCC-B | | |
| **ENVIRONMENTAL CONDITIONS** | | | |
| Operating temperature | 5°C to 35°C (41°F to 95°F) | | |
| Operating humidity | 10% to 80% | | |
| Storage temperature | -10°C to 40°C (14°F to 104°F) | | |
| Storage humidity | 10% to 80% | | |

| PRINTER (OPTION FOR MC-2100U/2200U/2600U) | |
|---|---|
| Type | Disc printer |
| Print method | Parallel colour inkjet printer |
| Ink | Ink cartridge: BLK/Y/M/C (exclusive) |
| Resolution | 720 dpi |
| Applicable discs | Printable CD-R media |
| Driver software | Windows NT V. 4.0 Service Pack 3 or higher |
| Interface | Centronics compliant, parallel |
| Dimensions | 402 (W) x 278 (H) x 175 (D) mm<br>(15-7/8" x 11" x 6-15/16") |
| Weight | 7 kg (15.5 lbs.) |
| Power requirements | 120 to 240 V AC, 50/60 Hz |

| OPTIONAL CD-ROM PLAYER AND CD-RECORDER | | |
|---|---|---|
| General | CD-ROM | CD-R |
| Compatible media | CD-DA<br>CD-ROM (mode 1 & 2)<br>CD-ROM XA (mode 2, form 1 & 2)<br>Photo CD, CD-I | CD-DA<br>CD-ROM (mode 1)<br>CD-ROM XA(mode 2) (form 1 or 2)<br>Photo CD, VIDEO CD |
| Data transfer | 4,800 KB/s (32X play) | 3,000 KB/s (20X play)<br>1,200 KB/s (8X record) |
| Access time | 85 ms (CD) | 170 ms (CD) |
| Buffer size | 512 KB | 4 MB |
| **OPTIONAL DVD-ROM DRIVE (MC-2100U/2100PU only)** | | |
| Compatible media | DVD-ROM, DVD-R,<br>CD-ROM (mode 1 & 2),<br>CD-ROM XA, CD-I, CD-DA, Photo CD, CD-R | |
| Data transfer | 5.52 MB/s (Max. and 4X Read DVD-ROM) | |
| Access time | 180 ms (DVD average) | |
| Buffer size | 512 KB | |

All model numbers, specifications and prices are subject to change without notice.

# DVD-RAM Library

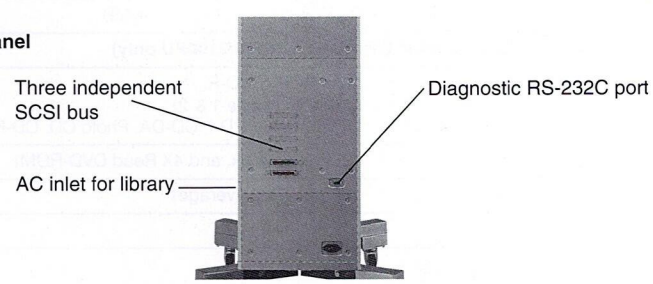
## MC-7000U Series (up to 1.6 terabytes/unit)

MC-7600U

- **Mass storage capacity of 260 GB (MC-7100U), 520 GB (MC-7200U) and 1.56 TB (MC-7600U)**
- **Rapid disc loading times of 2.5 sec. (MC-7100U), 4 sec. (MC-7200U) and 4.5 sec. (MC-7600U)**
- **Full network compatibility**
- **Permanently available bays for 6 DVD-RAM drives (MC-7200U/MC-7600U) and 4 DVD-RAM drives (MC-7100U)**
- **50-disc capacity magazines for easy and rapid handling of media**
- **Three independent SCSI ports**
- **Mail Slot for loading and unloading single discs fitted as standard**
- **Diagnostics available via RS-232C port for on-site or remote access**
- **LCD panel with easy-to-understand messages and codes**
- **Modular design for simplified maintenance and support**
- **Self-calibrating carrier with disc sensor eliminates handling errors and collisions**
- **Naked DVD-RAMs provide high physical storage density by not having caddies**
- **MSBF — more than 2.5 million swap cycles**
- **Internal air-filtration system**
- **Low vibration for improved read/write accuracy of DVD-RAM**

| | MC-7100U | MC-7200U | MC-7600U |
|---|---|---|---|
| **GENERAL** | | | |
| Storage capacity | 260 GB | 520 GB | 1.56 TB |
| Disc capacity | 2.6 GB (Single-sided) | | |
| Number of discs | 100-disc capacity | 200-disc capacity | 600-disc capacity |
| Drive configuration | 1 x speed DVD-RAM drive | | |
| Number of drives | Up to 4 drives | Up to 6 drives | Up to 6 drives |
| Magazine | 2 x 50 discs | 4 x 50 discs | 12 x 50 discs |
| SCSI interface | SCSI-2 (Drives and Robotics) | | |
| SCSI connector interface | Six 50-pin female centronics | | |
| Average disc load time | 2.5 seconds | 4 seconds | 4.5 seconds |
| **PHYSICAL CHARACTERISTICS** | | | |
| Power requirements | 120 to 240 V AC, 50/60 Hz universal power supply | | |
| Applicable standards | CE, TUV/GS, UL, CSA and FCC-B | | |
| MSBF | 2.5 million swap cycles | 2.5 million swap cycles | 2.5 million swap cycles |
| Dimensions | 340 (W) x 616 (H) x 670 (D) mm (13-7/16" x 24-5/16" x 26-7/16") | 350 (W) x 866 (H) x 670 (D) mm (13-13/16" x 34-1/8" x 26-7/16") | 777 (W) x 1640 (H) x 807 (D) mm (30-5/8" x 64-5/8" x 31-13/16") |
| Weight | 47 kg (103.9 lbs.) | 67 kg (149.2 lbs.) | 107 kg (242.5 lbs.) |
| Power consumption (Max.) | 110 W | 120 W | 120 W |
| **ENVIRONMENTAL CONDITIONS** | | | |
| Operating temperature | 5°C to 35°C (41°F to 95°F) | | |
| Operating humidity | 10% to 80% | | |
| Storage temperature | -10°C to 40°C (14°F to 104°F) | | |
| Storage humidity | 10% to 80% | | |
| **DVD-RAM DRIVE** | | | |
| General | DVD-RAM Drive (Model: MC-R200U) | | |
| Compatible disc | DVD-ROM, CD-ROM 2.6 GB DVD-RAM. DVD-R,CD-R | | |
| DVD-RAM disc capacity | 2.6 GB (Single-sided) | | |
| Data transfer | 1.38 MB/sec. (DVD-RAM) | | |
| Access time | 320 ms (DVD-RAM) | | |
| Buffer size | 1 MB | | |
| **JVC EXCLUSIVE DVD-RAM DISC FOR MC-7000 SERIES** | | | |
| General | DVD-RAM Disc (JVC Model: MC-W2650) | | |
| Number of discs | 50 discs | | |
| Disc capacity | 2.6 GB (Single-sided) | | |
| Media type | Rewritable | | |

**Rear panel**

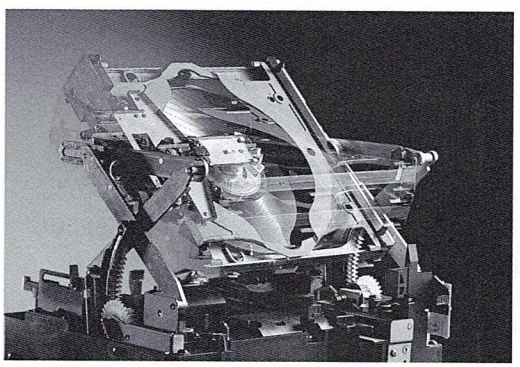



All model numbers, specifications and prices are subject to change without notice.

# MC-8000U Series

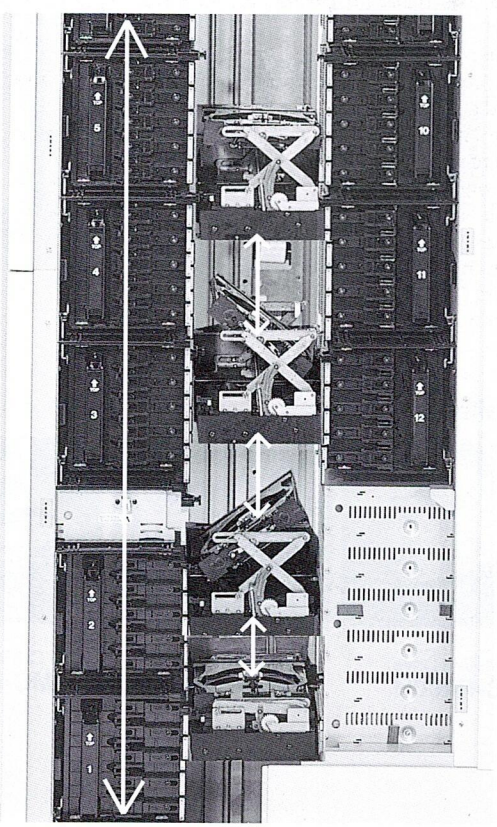
- **The MC-8000U Series Library are designed to meet the demands for a flexible and high-capacity data storage solution. Compatible with a variety of removable media, the MC-8000U Series is ideal for archiving everything from text-based documents to CAD data, high resolution images and digital audio/video files.**
- **Maximum number of drives can be extended to 9 for MC-8200U and 12 for MC-8600U.**
- **Choose any type and combination of installed drives (CD-ROM, CD-R/RW, DVD-ROM, DVD-RAM, etc.). Multiple drive types can be installed at the same time.**
- **Utilizing the latest 4.7 GB DVD-RAM Drives, Flip Mechanism and 9.4 GB double-sided media for the MC-8600U, up to 5.6 TB of available on-line rewritable storage can be obtained.**
- **JVC optimizes data delivery times by inverting the disc during vertical positioning or "flipping-on-the-fly". This eliminates the additional time needed to transport the media to a specified location, invert the disc, and then transport the inverted disc to its destination. All of the specifications of a high-speed and reliable jukebox mechanism are retained.**
- **The number of SCSI buses, drive bays, and installation method can all be custom configured according to each customer's specifications.**

**MC-8100U** **MC-8200U** **MC-8600U**



| Product | CD/DVD library (100-disc) | CD/DVD library (200-disc) | CD/DVD library (600-disc) |
|---|---|---|---|
| Model | MC-8100U | MC-8200U | MC-8600U |
| Disc | 100 | 200 (150*) | 600 (550 & 500*) |
| Maximum capacity* | 940 GB | 1.88 TB | 5.64 TB |
| Disc load time (ave) | 2.5 seconds | 4 seconds | 4.5 seconds |
| Standard drive configuration | None (custom configured for each customer) | | |
| Maximum number of drives | 4 | 6 (9**) | 6 (9 & 12***) |
| Available drive types | | | |
| CD-ROM | MC-D18U, MC-D32U | | |
| CD-R | MC-R12U, MC-R14U, MC-R18U | | |
| DVD-ROM | MC-D104U | | |
| DVD-RAM | MC-R200U, MC-R400U | | |
| SCSI ID No. | Changer = 0 (factory default setting) | | |
| Connector | SCSI-2 (amphenol 50-pin) x 1, RS-232C (D-sub 9P) connector for remote maintenance x 1 | | |
| Import/export | Mail slot | | |
| Bulk loading | 50-disc magazine x 2 | 50-disc magazine x 4 (3**) | 50-disc magazine x 12 (11 & 10***) |
| Security door lock | Standard feature | | |
| Double-sided media support | Optional installation of MC-CF10U invert carrier | | |
| Disc printer | Optional MC-AP30U 4-color 720 dpi disc printer | | |
| Dimensions (WxHxD) | 340 x 616 x 680 mm (13-7/16" x 24-5/16" x 26-13/16") | 340 x 866 x 670 mm (13-7/16" x 34-1/8" x 26-7/16") | 777 x 1641 x 807 mm (30-5/8" x 64-5/8" x 31-13/16") |
| Weight | 46 kg (101.7 lbs.) | 60 kg (132.3 lbs.) | 108 kg (238.1 lbs.) |
| Power requirements | 120 to 240 V AC, 50/60 Hz | | |
| Power consumption | 1.2 A | 2.9 A | 3.8 A |

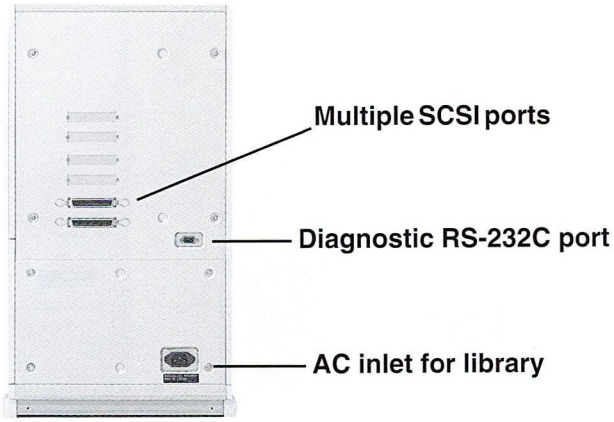
* With a 9.4 GB double-sided DVD-RAM disc
** Supports 150 discs and 9 drives
*** Supports 550 discs and 9 drives or 500 discs and 12 drives



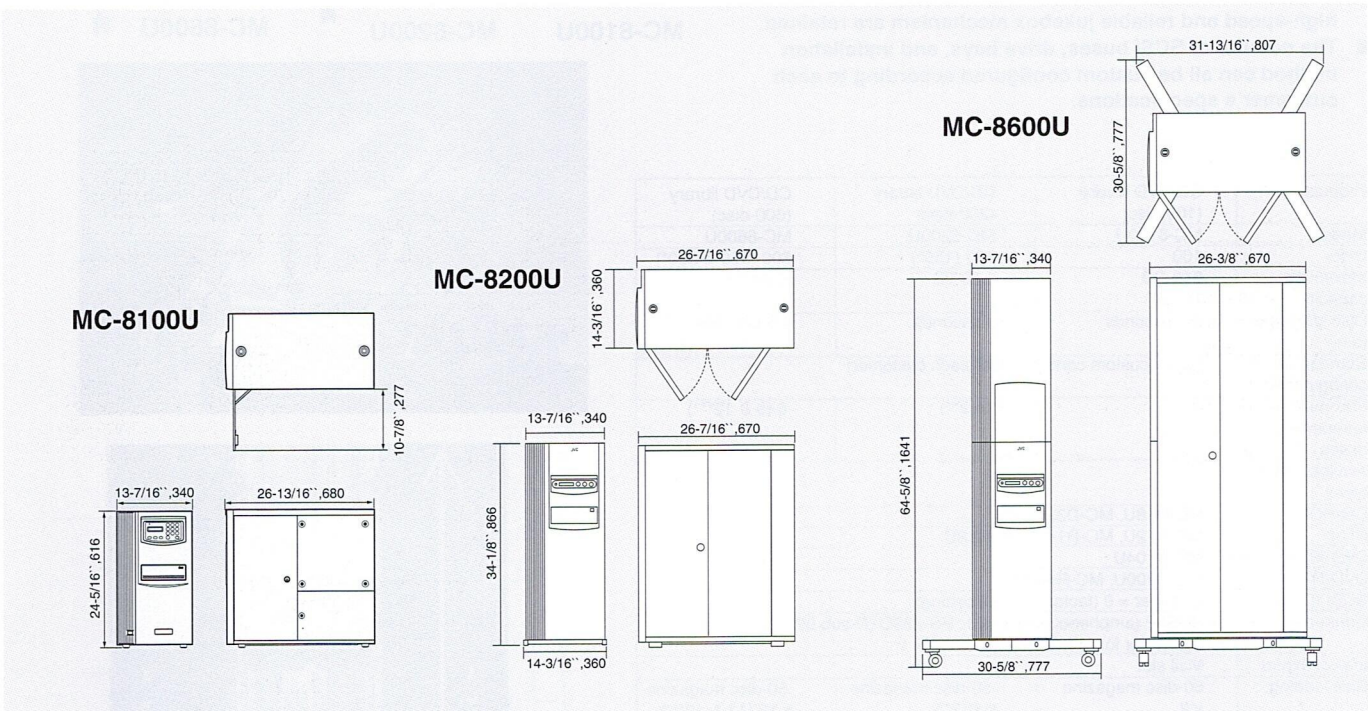
**1 transport (dramatised flipping action)**

All model numbers, specifications and prices are subject to change without notice.

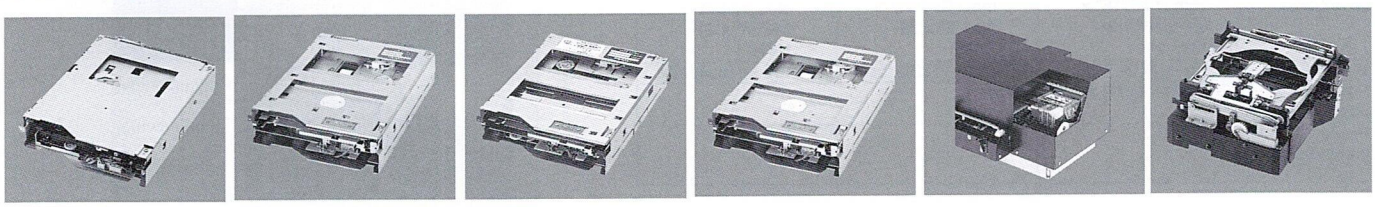
## Rear Panel




## ■ Dimensions(INCH, mm)




## ■ Available Devices



DVD-RAM Drive
**MC-R400U**

DVD-ROM Drive
**MC-D104U**

CD-R Drive
**MC-R18U**

CD-ROM Drive
**MC-R32U**

Disc-Printer
**MC-AP30U**

Double-Sided Disc Carrier
**MC-CF10U**



All model numbers, specifications and prices are subject to change without notice.

# Infrared Wireless LAN Satellites

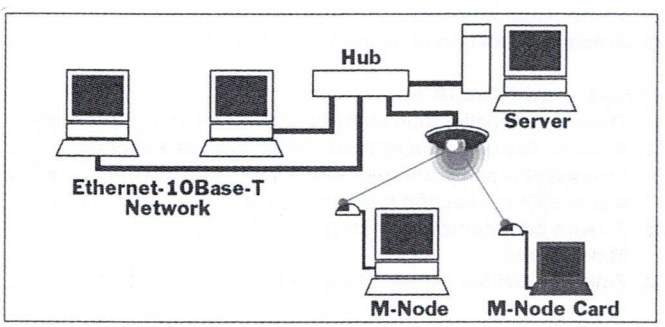


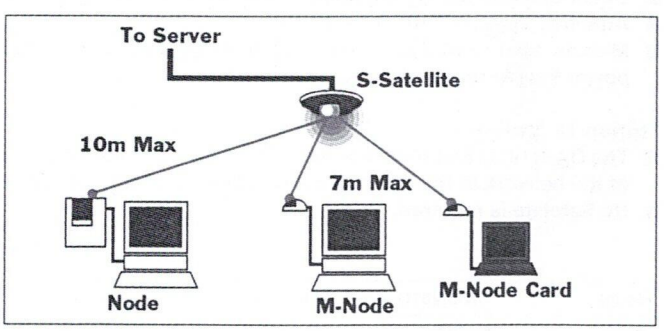
## OA-C201U (ceiling)

## OA-C202U (wall)

**S-Satellite (ceiling) and W-Satellite (wall) interface modules**

- Satellites are unlimited node wireless / wired Ethernet hubs
- High speed 10 Mbps data throughput
- Full Ethernet IEEE802.3 compliant
- High security, interference-free infrared connection
- 10 metre communications range with standard node
- 7 metre communications range with M-node and M-node card
- Fully compatible with existing VIPSLAN units
- Direct Satellite-Laptop connection with M-node and M-node Card
- Versatility of ceiling or wall installation




| Model | OA-C201U | OA-C202U |
|---|---|---|
| Name | S-Satellite | W-Satellite |
| Data throughput | 10 Mbps | 10 Mbps |
| Ethernet standard compliance | IEEE802.3 and Ethernet II | IEEE802.3 and Ethernet II |
| Interface | 10 Base-T | 10 Base-T |
| Maximum range | 10 m (33') with Node | 10 m (33') with Node |
| | 7 m (23') with M-node | 7 m (23') with M-node |
| Current consumption | 1.3 A | 0.8 A |
| Power requirement | AC 24 V | AC 24 V |
| Dimensions (W x H x D) | 180 x 180 x 230 mm | 222 x 185 x 129 mm |
| Weight | 2.8 kg | 2.1 kg |

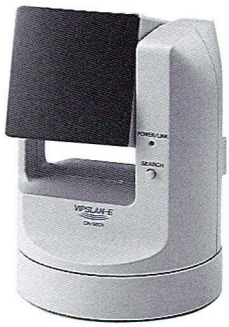
All model numbers, specifications and prices are subject to change without notice.

# Infrared Wireless LAN Nodes



## OA-M201U M-node

## OA-M101U Node/ OA-N101U Station



## OA-M202U M-node card

**M-Node, Standard node, and PCMCIA M-node card interface modules**

- Unlimited number of wireless nodes for wireless / wired Ethernet Satellite ceiling or wall hubs
- High speed 10 Mbps data throughput
- Full Ethernet IEEE802.3 compliant
- High security, interference free infrared connection
- 10 metre communications range with standard node
- Automatic location of nearest satellite

**M-node and PCMCIA M-node card**

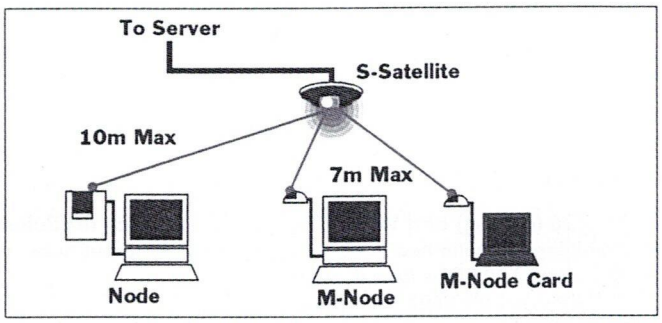
- 75 percent smaller than standard Nodes for increased mobility
- Autolink feature finds nearest satellite within 3 seconds
- Quickshift feature automatically transfers to alternate satellite signal within 1 second if first connection is interrupted
- 7 metre communications range with M-node and M-node card
- Fully compatible with existing VIPSLAN units

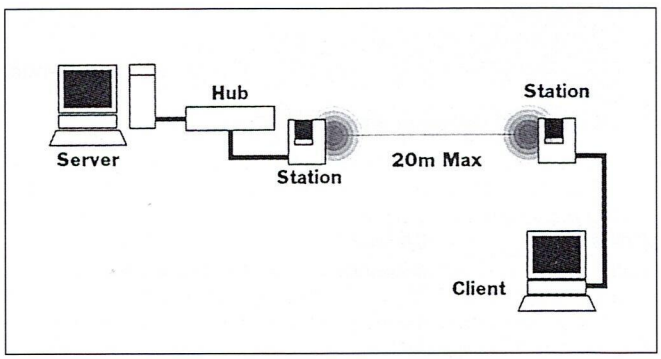
**PCMCIA M-node card**

- Direct Satellite-Laptop connection with M-node card
- Attached Type II PCMCIA card
- M-node card draws power directly from laptop; no external power supply required

**Station to Station**

- The OA-N101U Station to Station unit can link a remote branch of the network to the hub in a point to point fashion over 20 m
- No Satellite is required.




| Model | OA-M201U | OA-M202U | OA-M101U | OA-N101U |
|---|---|---|---|---|
| Name | M-node | M-node card | Standard Node | Station |
| Data throughput | 10 Mbps | 10 Mbps | 10 Mbps | 10 Mbps |
| Ethernet standard compliance | IEEE802.3 and Ethernet II | IEEE802.3 and Ethernet II | IEEE802.3 and Ethernet II | IEEE802.3 and Ethernet |
| Interface | 10 Base-T | PCMCIA Type II Card slot | 10 Base-T | 10 Base-T |
| Maximum range | 7 m (23') | 7 m (23') | 10 m (33') | 20 m (66') |
| Current consumption | 500 mA | 600 mA | 700 - 1200 mA | 700 - 1200 mA |
| Power requirement | DC 5 V | DC 5 V | DC 7 - 9 V | DC 7 - 9 V |
| Dimensions (W x H x D) | 56.8 x 105 x 61.2 mm | 56.8 x 105 x 61.2 mm | 171.5 x 152.4 x 209.6 mm. | Same as M101U |
| Weight | 150 g | 180 g | 910 g | 910 g |

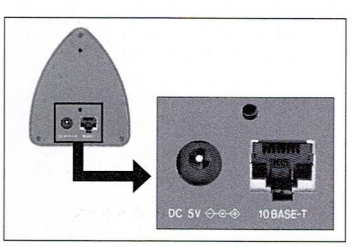


All model numbers, specifications and prices are subject to change without notice.

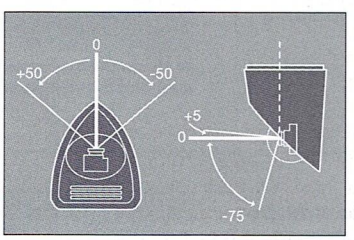
# VN-C1U
## (Fixed orientation)

# VN-C2U
## (Integrated pan/tilt)

- **The V.NETWORKS VN-C2U is the world's smallest Ethernet compliant Visual Network System with a built-in multi-angle Pan/Tilt, allowing discreet placement in tight spaces while retaining mobility and wide field of view**
- **V.NETWORKS can be controlled remotely and easily from the next room via an Ethernet network, or across the country via the telephone line, using your PC and JVC's exclusive viewer/controller software (included)**
- **Direct Network Connectivity**
  **Just connect V.NETWORKS to the existing Ethernet using a 10Base-T connection, and viewing digital images on the network is very easy, quick and cost-effective.**
- **Viewer/Controller software (included)**
  **JVC's exclusive viewer/controller software (ready for Windows 95/98) allows remote control of Multi-angle Pan/Tilt and other V.NETWORKS functions as well as monitor JPEG images on the PC display.**
- **Multi-angle Pan/Tilt Built-in**
  **Small and fast Pan/Tilt function (160°/sec) also features multi-angle-direction-action allowing discreet placement in tight spaces while retaining mobility and wide field of view.**
- **Easy Remote Monitoring**
  **Using phone lines, ISDN or exclusive lines, V.NETWORKS is ideal solution for remote monitoring and viewing.**
- **Full Digital Signal Processing**
  **The latest CMOS Image sensor digital output goes directly to the JPEG hardware compression and translates into network packet signals with the IEEE 802.3, world standard making it possible to capture, monitor and distribute full digital images anywhere on the network, and easily manipulate them using existing image processing software in the market.**




Easy installation and use




Fast multi-angle Pan/Tilt built in

Viewer/controller software (included)

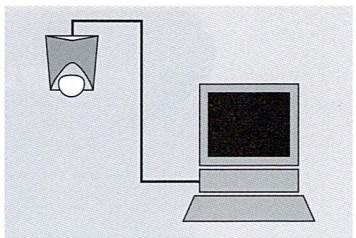
**Options**

VC-BK20
Ceiling bracket for VN-C2U
S-8375
5V DC net adapter for VN-CIU/VN-C2U

# Visual Network System

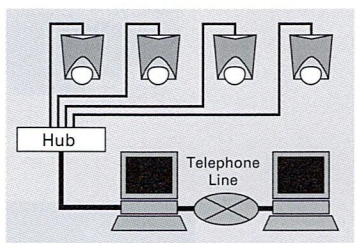
V.NETWORKS

**At the Door**
**Install a V.NETWORKS in the reception area and see who's at the door from your personal computer. Connect the V.NETWORKS to the Ethernet network, or directly to your computer in standalone configuration.**



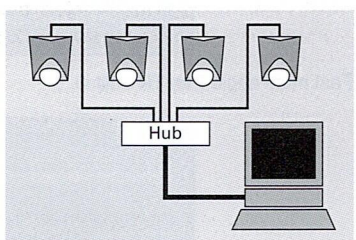
Standalone connection: V.NETWORKS is connected directly to computer.

**At the Industrial Site**
**Install a V.NETWORKS in every manufacturing section and easily keep track of production without leaving your desk. The built-in multi-angle Pan/Tilt allows you to monitor a wide area.**



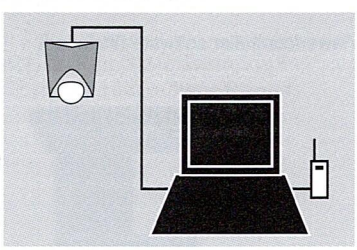

WAN connection: images on network are accessed over telephone line

**At the Bank**
**So small it goes virtually unnoticed, V.NETWORKS is ideal for bank security. Monitor all ATM and teller window traffic, and capture a still image of each visitor for inclusion in a database.**




LAN connection: multiple V.NETWORKS systems connect to a Ethernet network

**At the Construction Site**
**Keep tabs on the new construction site even from miles away. With V.NETWORKS and notebook computer with cellular modem, an operative can tour the site, sending visual data back to you at headquarters.**



Remote connection: visual data is sent to network server via cellular modem

| Model | | VN-C1U | VN-C2U |
|---|---|---|---|
| Camera | Image sensor | 1/3" CMOS 300,000 pixels | |
| Pan/Tilt | Angle | N/A | Pan: +50° -50° Tilt: +5° -75° |
| | Speed | N/A | Pan: 160°/s Tilt: 160°/s |
| Lens | Focal Length (f) | 7 mm | |
| | Aperture Ratio (F) | F2 | |
| | Focus | Manual | |
| | Min. Object Distance | 1.0 m (3.3') | |
| Interface | | 10Base-T (Ethernet) IEEE802.3 | |
| Protocol | | UDP/IP | |
| Picture | Resolution (Pixels) | 160 x 120, 320 x 240, 640 x 480 | |
| | Compression | JPEG | |
| Frame rate | 160 x 120 | 9 | |
| (fps)* | 320 x 240 | 6 | |
| | 640 x 480 | 3 | |
| System | Operating System | Windows 95/98/NT | |
| requirements | CPU | Pentium 133 MHz or higher (200 MHz or higher recommended) | |
| | Memory | 32 MB RAM or more (64 MB or more recommended) | |
| | Hard Disk Space | 20 MB or more | |
| | Display/Video Card | 640 x 480 or higher; high colour (16 bit) (1024 x 768; true colour (24 bit) recommended) | |
| | Network Communication | Network interface card, 10Base-T cable (IEEE802.3 standard) | |
| Position memory | | na | 6 positions |
| Power requirements | | DC 5 V 0.6 A | DC 5 V 1.4 A (MAX) |
| Dimensions | | 22 (W) x 82 (H) x 97 (D) mm (4-3/4" x 3-1/4" x 3-7/8") | |
| Weight | | 230 g (8.2 oz.) | 260 g (9.25 oz.) |

* Depends on operational environment.
•Dimensions and specifications are subject to change without notice.
•Product names are trademarks of their respective companies

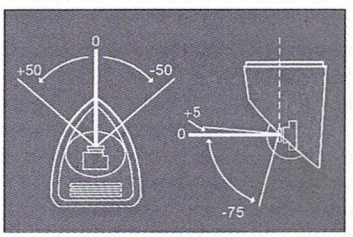


All model numbers, specifications and prices are subject to change without notice.

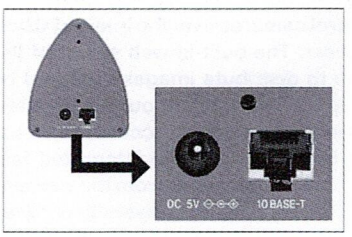
# VN-C2WU with Server

Built-in Web server

- View images and control cameras over the Internet using a standard web browser. The built-in web server of the VN-C2WU allows you to distribute images captured by the camera directly to the Internet without a computer. The VN-C2WU provides convenient access to visual information via web browsers, and the integrated fast Pan/Tilt function also can be controlled from the viewer's browser. You can also easily link to a diversity of "live" visual content on a homepage. From real-time viewing of road traffic conditions to a visual update on the state of cherry blossoms in tourist areas, the possibilities of using this new system for "live" visual information services are limitless.
- V.NETWORKS can be controlled remotely and easily from the next room via an Ethernet network, or across the country via the telephone line, using your PC.
- Direct Network Connectivity
  Just connect V.NETWORKS to the existing Ethernet using a 10Base-T connection, and viewing digital images on the network is very easy, quick and cost-effective.
- Multi-angle Pan/Tilt Built-in
  Small and fast Pan/Tilt function (160 degrees/sec) also features multi angle direction action allowing discreet placement in tight spaces while retaining mobility and wide field of view.
- Easy Remote Monitoring
  Using phone lines, ISDN or exclusive lines, and Internet V.NETWORKS is an ideal solution for remote monitoring and viewing.
- Full Digital Signal Processing
  The latest CMOS Image sensor digital output goes directly to the JPEG hardware compression and translates into network packet signals with the IEEE 802.3, world standard making it possible to capture, monitor and distribute full digital images anywhere on the network, and easily manipulate them using existing image processing software in the market.




Fast multi-angle Pan/Tilt Built-in




Direct Ethernet Connection

# VN-C3U with 10x Zoom

# VN-C3WU with Internet Server and 10x Zoom

- **Optical 10X Zoom lets you get a close look**
  Not only the High-speed Pan/Tilt function, but the optical 10x Zoom mechanism is contained inside the compact body of the VN-C3U and VN-C3WU. Control the 10x Zoom remotely and easily from your PC, and see the high quality images in detail.
- The programmable alarm function automates surveillance or recording. The VN-C3U and VN-C3WU comes equipped with an alarm trigger connector. Using the signal output from the alarm trigger connector, you can automatically change camera's angle and zoom ratio or trigger recording.*

* Pre-setting of desired camera angles or zoom ratios in position memory is necessary.

- V.NETWORKS can be controlled remotely and easily from the next room via an Ethernet network, or across the country via the telephone line, using your PC and JVC's exclusive viewer/controller software (included).
- **Direct Network Connectivity**
  Just connect V.NETWORKS to the existing Ethernet using a 10Base-T connection, and viewing digital images on the network is very easy, quick and cost-effective.
- View images and control cameras over the Internet using a standard web browser. The built-in web server of the VN-C3WU allows you to distribute images captured by the camera directly to the Internet without a computer. The VN-C3WU provides convenient access to visual information via web browsers, and the integrated fast Pan/Tilt function also can be controlled from the viewer's browser. You can also easily link to a diversity of "live" visual content on a homepage. From real-time viewing of road traffic conditions to a visual update on the state of cherry blossoms in tourist areas, the possibilities of using this new system for "live" visual information services are limitless.
- **Viewer/Controller software (included) (VN-C3U)**
  JVC's exclusive viewer/controller software (ready for Windows 95/98/NT) allows remote control of Multi-angle Pan/Tilt and other V.NETWORKS functions as well as monitor JPEG images on the PC display.

Viewer/Controller Software included

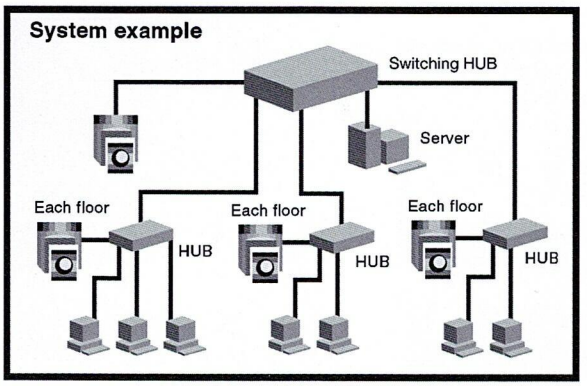
- **Multi-angle Pan/Tilt Built-in**
  Small and fast Pan/Tilt function (100 degrees/sec) also features multi angle direction action allowing discreet placement in tight spaces while retaining mobility and wide field of view.
- **Easy Remote Monitoring**
  Using phone lines, ISDN or exclusive lines, V.NETWORKS is an ideal solution for remote monitoring and viewing.
- **Full Digital Signal Processing**
  The latest CMOS Image sensor digital output goes directly to the JPEG hardware compression and translates into network packet signals with the IEEE 802.3, world standard making it possible to capture, monitor and distribute full digital images anywhere on the network, and easily manipulate them using existing image processing software in the market.

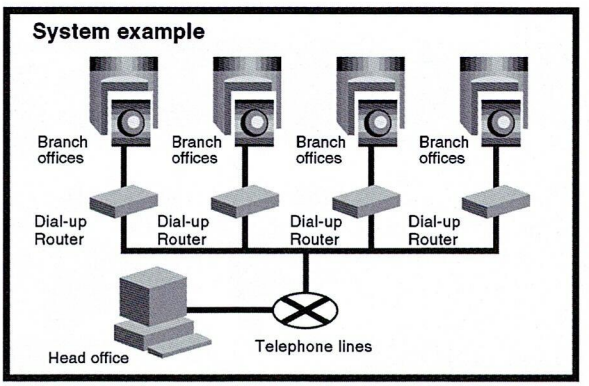


All model numbers, specifications and prices are subject to change without notice.

# System and Specifications






## VN-C2WU

| | | |
|---|---|---|
| Camera | Image Sensor | 1/3" CMOS 300,000 pixels |
| Pan/Tilt | Angle | Pan: +50°~-50° Tilt: +5°~-75° |
| | Speed | Pan: 160°/s Tilt: 160°/s |
| Lens | Focal Length (f) | 7 mm |
| | Aperture Ratio (F) | F2 |
| | Focus | Manual |
| | Min. Object Distance | 1.0m (3.3') ~ ∞ |
| Interface | | 10Base-T (Ethernet) IEEE802.3 |
| Protocol | | TCP/IP, HTTP |
| Picture | Resolution (Pixels) | 160 x 120, 320 x 240, 640 x 480 |
| | Compression | JPEG |
| Frame Rate (fps)* | 160x120 | 15 |
| | 320x240 | 10 |
| | 640X480 | 5 |
| View through | | Web Browser* |
| Position Memory | | 10 positions |
| Power Requirements | | DC5V 1.4A (MAX) |
| Dimensions (H x W x D) | | 4-3/4" x 3-1/4" x 3-7/8" (122 x 82 x 97mm) |
| Weight | | 9.25 oz. (260g) |

*Depends on operational environment. Web browser compatible with both java-script and frame display (Netscape 3.0 or higher, or Internet Explorer 4.0 or higher is required.)
*Frame rate varies depending on the operating environment.

## VN-C3WU

| | Model | VN-C3WU |
|---|---|---|
| Camera | Image Sensor | 1/3" CMOS 300,000 pixels |
| Lens | Zoom | Optical 10x |
| | Focal Length (f) | 5.8mm — 58mm |
| | Aperture Ratio (F) | F1.8 |
| | Focus | Auto/Manual |
| | Min. Object Distance | 3.3" (1.0m) — ∞ |
| Interface | | 10Base-T (Ethernet) IEEE802.3 |
| Alarm I/O | | Input x 2, Output x 1 |
| Protocol | | TCP/IP,HTTP |
| Picture | Resolution (Pixels) | 160 x 120, 320 x 240, 640 x 480 |
| | Compression | JPEG |
| Frame Rate (fps)* | 160 x 120 | 15 |
| | 320 x 240 | 10 |
| | 640 x 480 | 5 |
| Pan/Tilt Angle | Pan | +160° — -160° |
| | Tilt | 0° — +90° |
| Pan/Tilt Speed | | 100°/s |
| View Through | | Web Browser** |
| Power Requirement | | DC12V 2.0A (Max.) |
| Dimensions (H x W x D) | | (6-1/2" x 4-3/8" x 4-3/8") (166mm x 110mm x 110mm) |
| Weight | | 26 oz. (730g) |

## VN-C3U

| | | |
|---|---|---|
| Camera | Image Sensor | 1/3" CMOS 300,000 pixels |
| Pan/Tilt | Angle | Pan: +160°~-160° Tilt: 0°~+90° |
| | Speed | Pan: 100°/s Tilt: 100°/s |
| Lens | Zoom | x10 |
| | Focal Length (f) | 5.8 mm ~ 58 mm |
| | Aperture Ratio (F) | F1.8 |
| | Focus | Auto/Manual |
| | Min. Object Distance | 1.0m (3.3') ~ ∞ |
| Interface | | 10Base-T (Ethernet) IEEE802.3 |
| Alarm I/O | | Input x 2, Output x 1 |
| Protocol | | UDP/IP |
| Picture | Resolution (Pixels) | 160 x 120, 320 x 240, 640 x 480 |
| | Compression | JPEG |
| Frame Rate (fps)* | 160x120 | 15 |
| | 320x240 | 10 |
| | 640X480 | 5 |
| System Requirements | OS | Windows 95/98/NT (SP4 or later) |
| View through | | JVC Controller Software |
| Position Memory | | 10 positions |
| Power Requirements | | DC12V 1.7A (MAX) |
| Dimensions (H x W x D) | | 6-1/2" x 4-3/8" x 4-3/8" (166 x 110 x 110mm) |
| Weight | | 26 oz. (730g) |

*Frame rate varies depending on the operating environment

# Advanced Multi-Camera Browser

V.NETWORKS

## VN-S200U 16 Cameras

## VN-S100U 4 Cameras

### VN-S200U

- Up to 16 V.NETWORKS cameras can be assigned to each of up to 16 windows. A total of 256 V.NETWORKS cameras can be registered.
- Picture resolution: 160 x 120, 320 x 240, 640 x 480 (pixels)
- Time stamp & camera name display
- Automatic detection of VN-C1U/C2U/C3U
- Pan/Tilt control
- Hard-disk recording and playback
- Dial-up Connection Wizard
- Compatible operating system: Windows® 95/ 98, Windows NT®
- 4-window multi-browser software is available as an option for easier operation

### VN-S100U

Easy-to-use software displays up to 4 windows simultaneously.

- By assigning up to 4 V.NETWORKS to each of the 4 windows, easy viewing of up to 16 V.NETWORKS cameras are possible.

(Other functions are the same as those of VN-S200U.)

* Image is simulated for display purposes.



All model numbers, specifications and prices are subject to change without notice.

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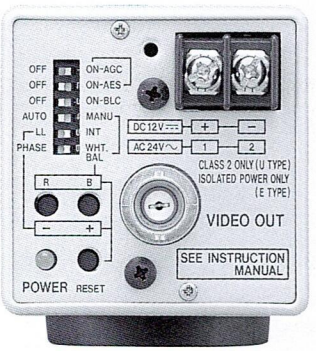
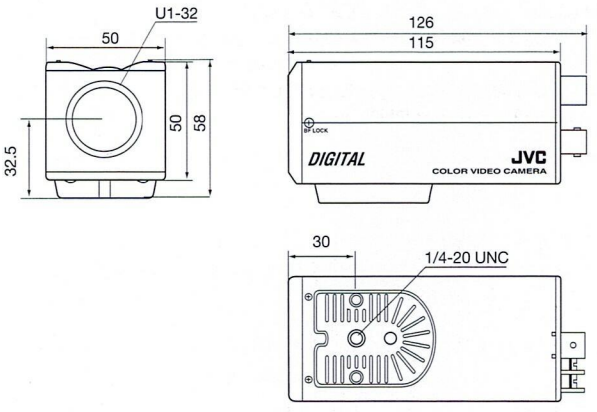
# 1/3-inch CCD DSP Colour Video Camera

## TK-C700E 24 V AC / 12 V DC  TK-C720E 24 V AC / 12 V DC

- Integrated Digital Signal Processor for Low-light Operation
- 1/3-inch IT CCD with 290,000 Effective Pixels (TK-C700E) and 440,000 Effective Pixels (TK-C720E)
- 330 Lines (TK-C700E) and 470 Lines (TK-C720E) of Horizontal Resolution
- Automatic Gain Control (AGC)
- Auto White Balance with Manual Adjustment
- S/N Ratio of 50 dB (AGC Off)
- Back-light Compensation
- Automatic Electronic Shutter

| TK-C700E | TK-C720E |
|---|---|
| 0.75 lux | 1.5 lux |
| 1/3" IT CCD | 1/3" IT CCD |
| 290,000 effective pixels | 440,000 effective pixels |
| 330 TV lines | 470 TV ines |
| Compact size | Compact size |
| 50 x 50 x 115 mm | 50 x 50 x 115 mm |
| (without tripod base and BNC plug) | |




Unit: mm

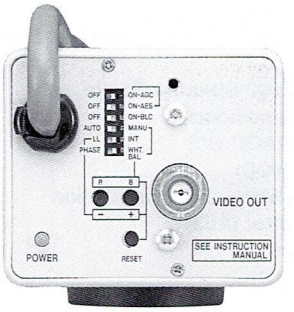


All model numbers, specifications and prices are subject to change without notice.

# 1/3-inch CCD Colour DSP CCTV Video Camera

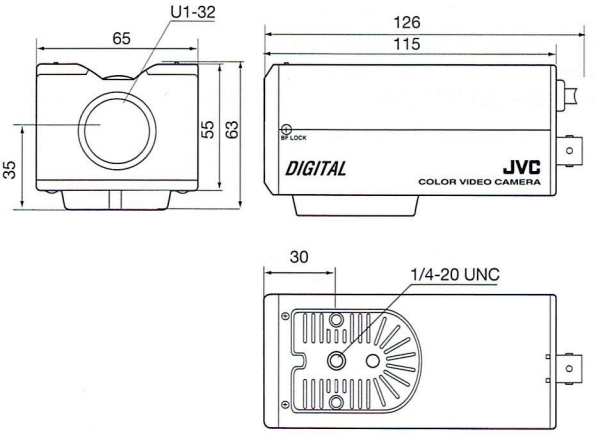
## TK-C701EG 220-240 V AC  TK-C721EG 220-240 V AC

- Integrated Digital Signal Processor for Low-light Operation (TK-C701EG: 0.75 lux, TK-C721EG: 1.5 lux)
- 1/3-inch IT CCD with 290,000 Effective Pixels (TK-C701EG) and 440,000 Effective Pixels (TK-C721EG)
- 330 Lines (TK-C701EG) and 470 Lines (TK-C721EG) of Horizontal Resolution
- Automatic Gain Control (AGC)
- Auto White Balance with Manual Adjustment
- S/N Ratio of 50 dB (AGC Off)
- Back-light Compensation
- Automatic Electronic Shutter




| TK-C701EG | TK-C721EG |
|---|---|
| 0.75 lux | 1.5 lux |
| 1/3" IT CCD | 1/3" IT CCD |
| 290,000 effective pixels | 440,000 effective pixels |
| 330 TV lines | 470 TV ines |
| 65 x 55 x 115 mm | 65 x 55 x 115 mm |

(without tripod base and BNC plug)

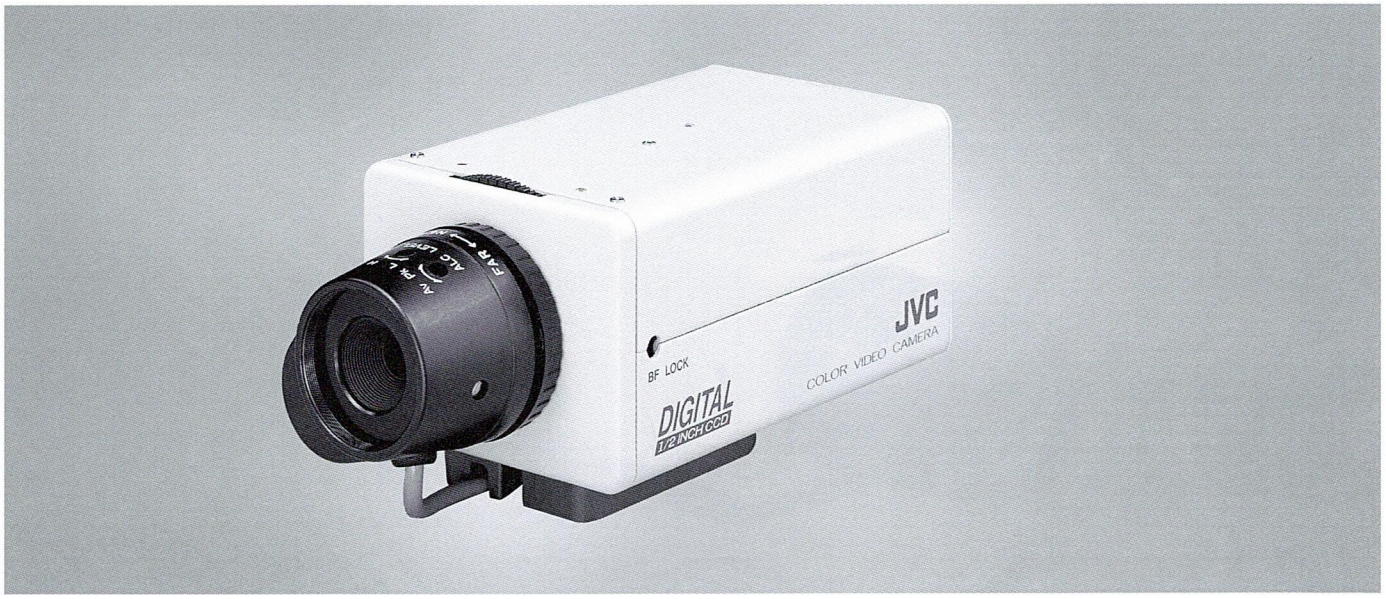



Unit: mm

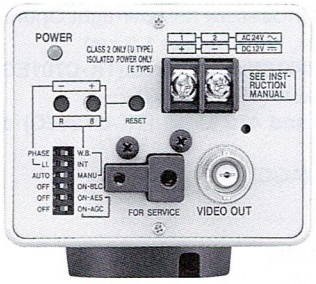
# 1/2-inch CCD Colour DSP CCTV Video Camera

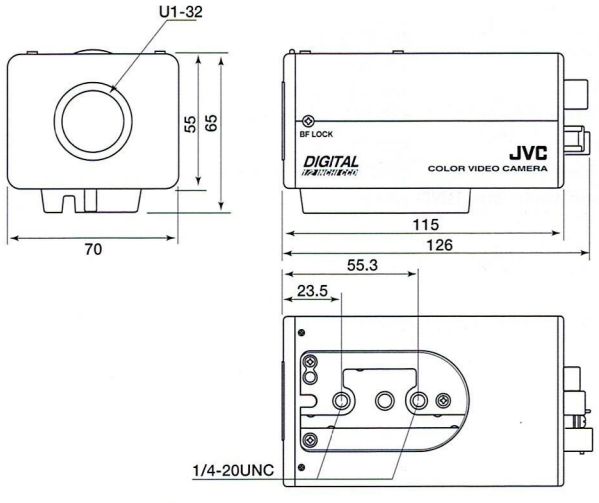
## TK-C1310E 24 V AC / 12 V DC






- Integrated Digital Signal Processor for Low Light Sensitivity: 0.95 lux
- 1/2-inch IT CCD with 440,000 Effective Pixels
- 470 Lines of Horizontal Resolution
- Video S/N Ratio of 48 dB (AGC Off)
- Automatic Gain Control (AGC)
- Auto-White Balance with Manual Control Option
- Automatic Electronic Shutter (AES)
- Back Light Compensation




Unit: mm



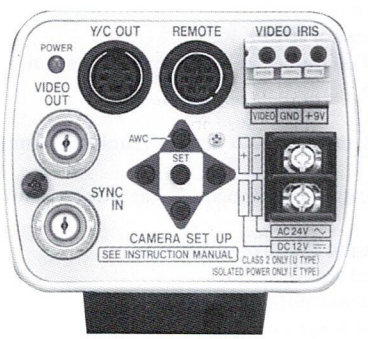
All model numbers, specifications and prices are subject to change without notice.

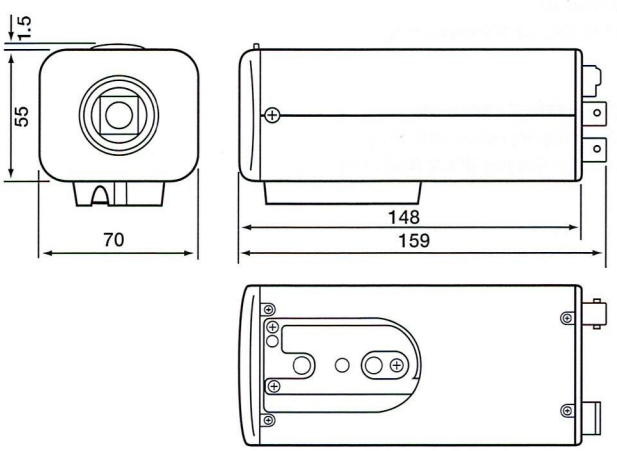
# 1/2" CCD RS-422A Control DSP Colour Camera

## TK-C1360BE 24 V AC/12 V DC

User supplied lens

- 1/2 inch IT CCD (440k pixels)
- 470 TV Lines resolution
- Signal to noise ratio of 48 dB
- 0.95 lux minimum illumination with normal shutter (at F1.2, 25 percent, AGC on)
- Captures sharp images down to 0.03 lux with slow shutter
  (at F1.2, 25 percent, AGC on) thanks to field integration
- Digital signal processing (DSP) adjusts to deliver top quality pictures under difficult operating conditions:
  Automatic shutter from 32/50 to 1/100,000 sec
  3-D Auto white balance
  Peak White highlight inverter
  Backlight compensation (BLC)
  Dual edge 2H detail enhancement
- RS-422A control
- Simple menu controls, wide range of settings, manually or via RS-422A control
- Camera ID overlay for multi-camera surveillance
- C or CS lens mount capability
- Compact size, ruggedly built
- Minimal weight just 660 g
- Two way power supply; AC 24 V, DC 12 V
- Y/C output
- One push auto white balance (AWC)




Unit: mm

# 1/2" CCD Multi-Purpose Colour Camera

## TK-C1380E 24 V AC/12 V DC
## TK-C1381EG 230 V AC

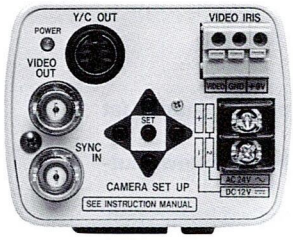
**TK-C1380E/TK-C1380EB**

- Sensitivity: 0.95 lux (F1.2 AGC ON, video level 25%)
- 1/2-inch Interline Transfer (IT) CCD
- Digital Signal Processor (DSP)
- Internal, External (Full genlock) and line lock system
- Contour correction
- ID capability
- Three-dimensional detect ATW (Auto Tracking White Balance)
- AGC (Automatic Gain Control) boosts sensitivity below preset light levels
- Wide-range Automatic Electronic Shutter
- Y/C Output Connectors
- Easy Menu-driven Parameter Setting
- Peak White inverter function
- Backlight Compensation
- C/CS Mount
- AC 24 V/DC 12 V Power Suppply

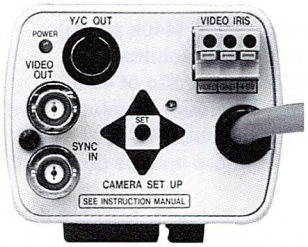
**TK-C1381EB/TK-C1381EGB**
**High Sensitivity Version (UK only)**

- Sensitivity: 0.4 lux (F1.2 AGC ON, video level 25%)

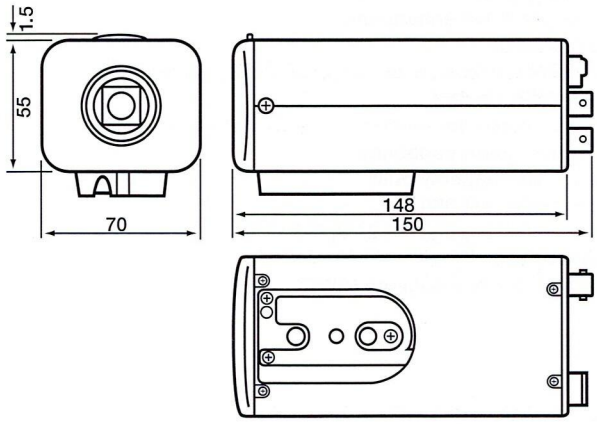
**User supplied lens**




**TK-C1380E**




**TK-C1381EG**




**Unit: mm**



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# Specifications



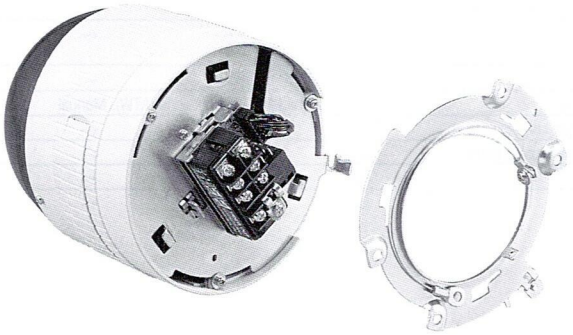
| | TK-C700E | TK-C720E | TK-C701EG | TK-C721EG | TK-C1310E | TK-C1360BE | TK-C1380E/TK-C1381EG<br>TK-C1380EB/TK-C1381EGB* |
|---|---|---|---|---|---|---|---|
| Signal System | Based on PAL standard | | ← | ← | ← | ← | ← |
| Image device | 1/3" Interline Transfer CCD with complementary colour filter | | | ← | 1/2" Interline Transfer CCD | 1/2" Interline Transfer CCD with complementary colour filter (Ye-Cy -MG-Gr) | |
| Effective picture elements | 290,000<br>500Hx582V | 440,000<br>752Hx582V | 290,000<br>500Hx582V | 440,000<br>752Hx582V | 440,000<br>752Hx582v | ← | ← |
| Video Process circuit | 9 bit digital processor (DSP) | | ← | ← | ← | ← | ← |
| Sync system | Internal, Line lock | ← | ← | ← | ← | Internal, Line lock, External (full genlock) | |
| Sync input | na | ← | ← | ← | ← | BB or VBS (BNC) | ← |
| Scanning frequency (normal) | (H) 15,625 Hz/(V) 50.0 Hz | | ← | ← | ← | ← | ← |
| Video output | Composite video signal (VBS), 1Vp-p 75 ohms unbalanced BNC | | | ← | ← | Composite video signal (VBS), 1Vp-p,75 ohms unbalanced BNC Y/CS terminal 4-pin | |
| Video S/N | 50dB (AGC off) | ← | ← | ← | 48dB (AGC off) | ← | ← |
| Horizontal resolution | 330 TV lines | 470 TV lines | 330 TV lines | 470 TV lines | ← | ← | ← |
| Minimum required illumination | 0.75lux (F1.2)<br>AGC on | 1.5lux (F1.2)<br>AGC on | 0.75lux | 1.5lux | 0.95lux (F1.2)<br>AGC on | 0.95lux (F1.2)<br>normal shutter<br>0.03lux (F1.2)<br>(slow shutter) | TK-C1380E/TK-C1381EG<br>0.95lux (F1.2)<br>normal shutter<br>na<br>TK-C1380EB/TK-C1381EGB<br>UK only: 0.4 lux (F1.2)<br>AGC on, video level 25% |
| Electronic shutter | 1/50 (normal) | ← | ← | ← | ← | 1/50(normal), 1/120,1/250, 1/50,1/1000, 1/2000,1/4000, 1/10,00,1/100,000 sec or AES | 1/50(normal), 1/120,1/250,1/50, 1/11000,1/2000, 1/4000,1/10,00,1/ 100,000 sec or AES |
| AES (automatic electronic shutter) | on/off | ← | ← | ← | ← | 33/50-1/100,000 sec | 1/50-1/100,000 sec |
| Slow shutter | na | ← | ← | ← | ← | 2/50,4/50,8/50, 16/50,32/50 sec | na |
| Auto Iris output | Video, DC(adjustable)← | | ← | ← | ← | ← | ← |
| White Balance | Atomatic tracking white balance (ATW), Manual | | | ← | ← | 3 dimension detection ATW, Manual (Biaxial) | |
| BLC (backlight compensation) | on/off | ← | ← | ← | ← | on/off, multi-data detection6 patterns | |
| AGO (automatic gain control) | on/off | ← | ← | ← | ← | Off, +9 dB, +18dB, Super AGC | |
| Camera ID | na | ← | ← | ← | ← | yes | ← |
| Setup menu | na | ← | ← | ← | ← | Sync select, phase control, chroma phase, brightness, Iris level, detail, AGC select, shutter speed, BLC, white balance selection and control, Highlight inversion, gain on/off/ up, camera ID | Sync select, phase control, chroma level, chroma phase, brightness, Iris level, detail, AGC select, shutter speed, BLC, white balance selection and control, Highlight inversion gain on/off/up |
| Remote controlinput | na | ← | ← | ← | ← | RS-422A (8-pin round din connector) | na |
| Lens mount | C or CS mount | ← | ← | ← | ← | ← | ← |
| Power suppy requirement | 24 Volt AC<br>50/60HZ,<br>12V DC | ← | 220-240V AC<br>50/60 Hz | ← | 24 Volt AC<br>50/60HZ,<br>12V DC | ← | TK-C1380E:<br>24 Volt AC<br>50/60 Hz<br>12V DC<br><br>TK-C1381EG:<br>230V AC<br>50/60Hz |
| Power Consumption (max) | 290mA | 350mA | 48mA | 53mA | 360mA | 440mA at<br>AC 24V (6.6W)<br>550mA at<br>DC 12V(6.6W) | TK-C1380E:<br>380mA at<br>AC24V (5.6W)<br>470 mA at<br>DC 12V(5.6W)<br>TK-C1381EG:<br>60 mA(5.6W) |
| Operating tempurature range | -10 to 50 deg C | ← | ← | ← | ← | ← | ← |
| Weight | 360g | ← | 300g | ← | 510g | 640g | 640g/880g |

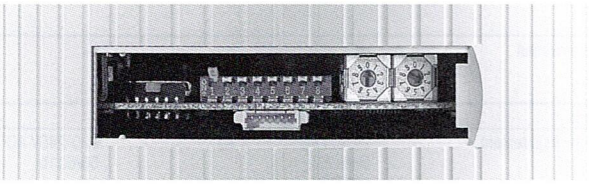
*TK-C1380EB, TK-C1381EBG (UK only)

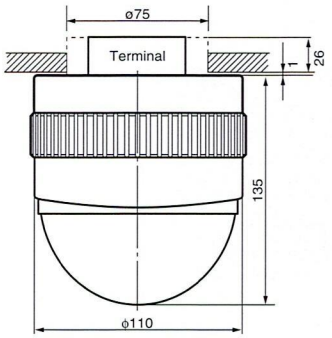
# 1/4" CCD DSP Active Movement 145 Degree Colour Dome Camera

## TK-AM200E

- 1/4" IT CCD 440,000 Pixels
- Fixed Lens (f=2.2 mm)
- Sensitivity: 4 lx with Cover
  1.5 lx without Cover
- Direct Drive Motor for Pan and Tilt
- Maximum Panning and Tilting Speed:
  120 Degrees/sec.
- The Range of Panning and Tilting:
  Total 60 Degrees with Coverage Over an Angle of 145 Degrees (Pan) and 125 Degrees (Tilt)
- 16 Preset Positions
- Built-in Menu
- 2x Electronic Zoom
- Auto Patrol Mode
- Programmable Backlight Compensation
- Panic Alarm (1 ch)
- Control Signals: RS-232C, RS-422A or RS-485
- Compact, Durable Design
- Optional Remote Unit RM-P2580E
- AC 24V








Unit: mm

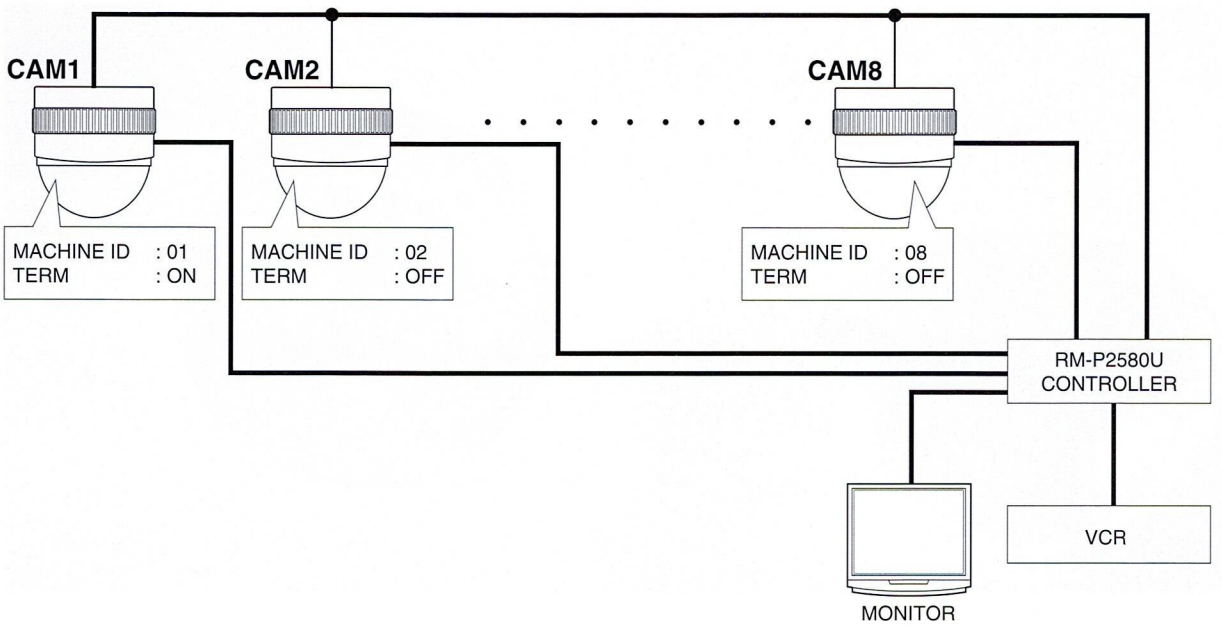


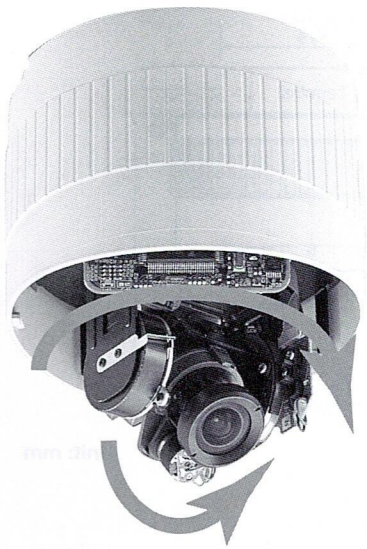
All model numbers, specifications and prices are subject to change without notice.

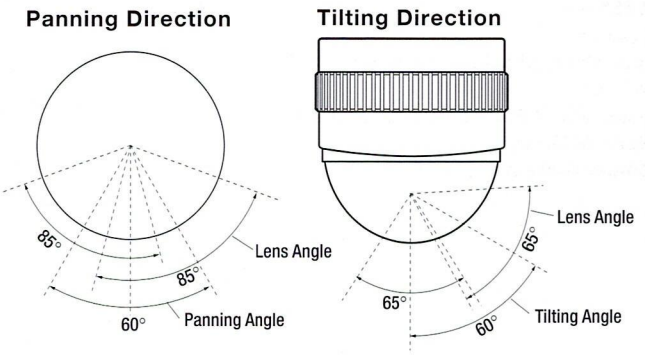
# 1/4" CCD DSP Active Movement 145 Degree Colour Dome Camera

## TK-AM200E







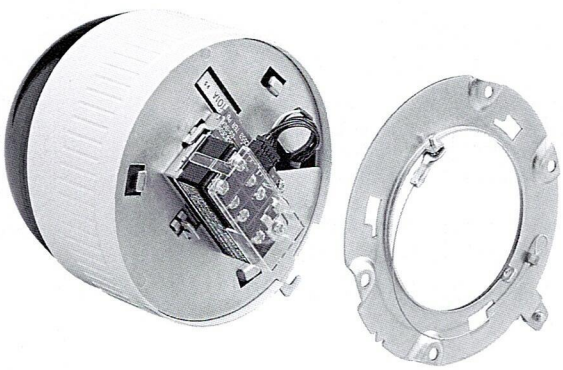


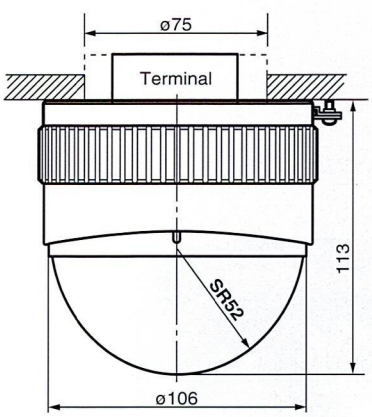

JVC PROFESSIONAL

# DSP Colour Fixed Dome Camera with Digital Pan & Tilt

## TK-553E

- Variable Focal-Length Lens (f=2.6 to 6 mm)
- 90° Manual Pan Aiming Range, 120° Manual Tilt Aiming Range
- Digital 2X Zoom — Digital Pan/Tilt function (Auto Pan, Tilt, Scroll and Auto Patrol)
- 1/4-inch 440,000 Pixel CCD
- High Sensitivity — 4 Lux (with cover), 1.5 Lux (without cover)
- Easy Setup of Parameter by Menu
- One-push Auto White Balance
- Programmable Backlight Compensation
- RS-422A and RS-485 Control Signals
- Compact, Space-saving Design
- Optional Remote Unit RM-P2580E
- AC 24V, DC 12V



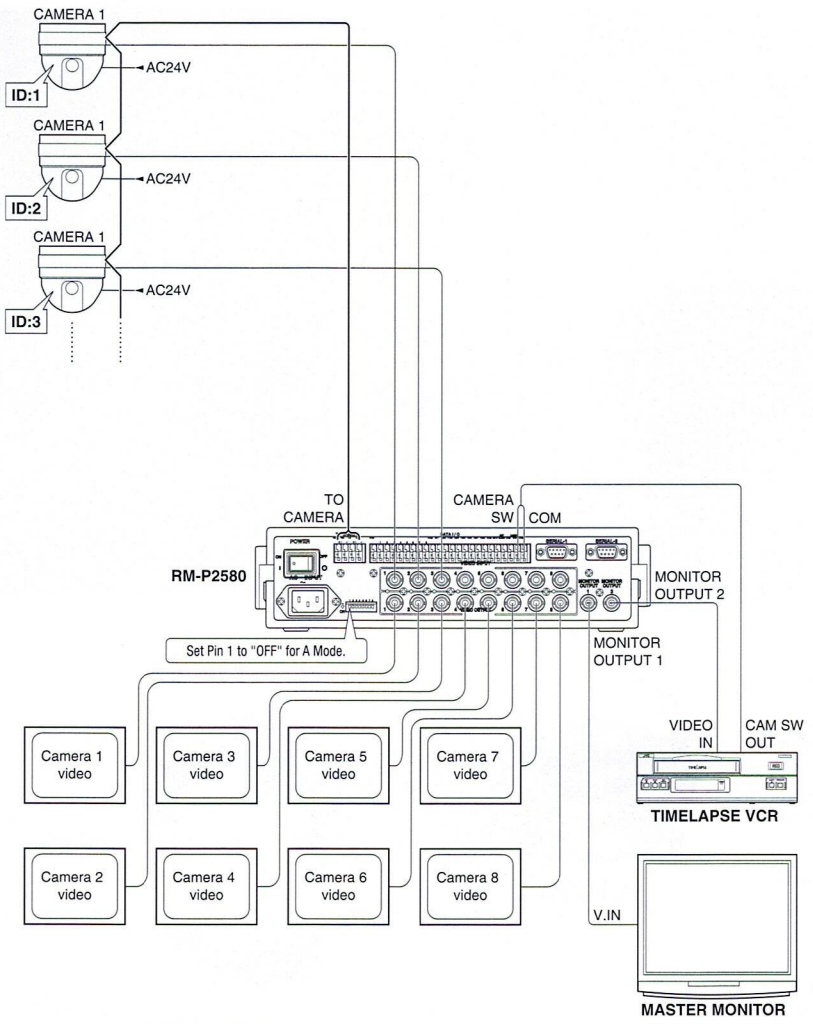



Unit: mm

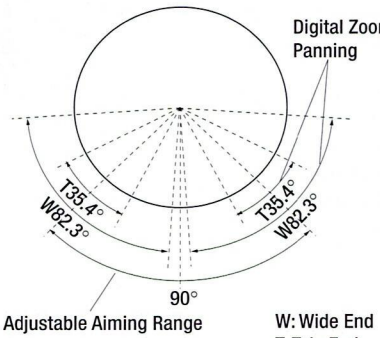
# DSP Colour Fixed Dome Camera with Digital Pan & Tilt

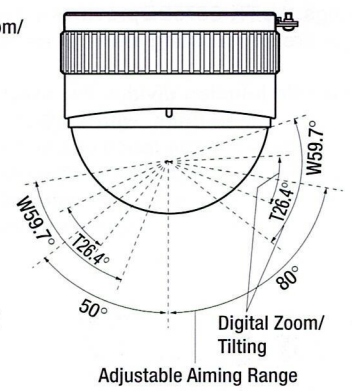
## TK-553E





Aiming

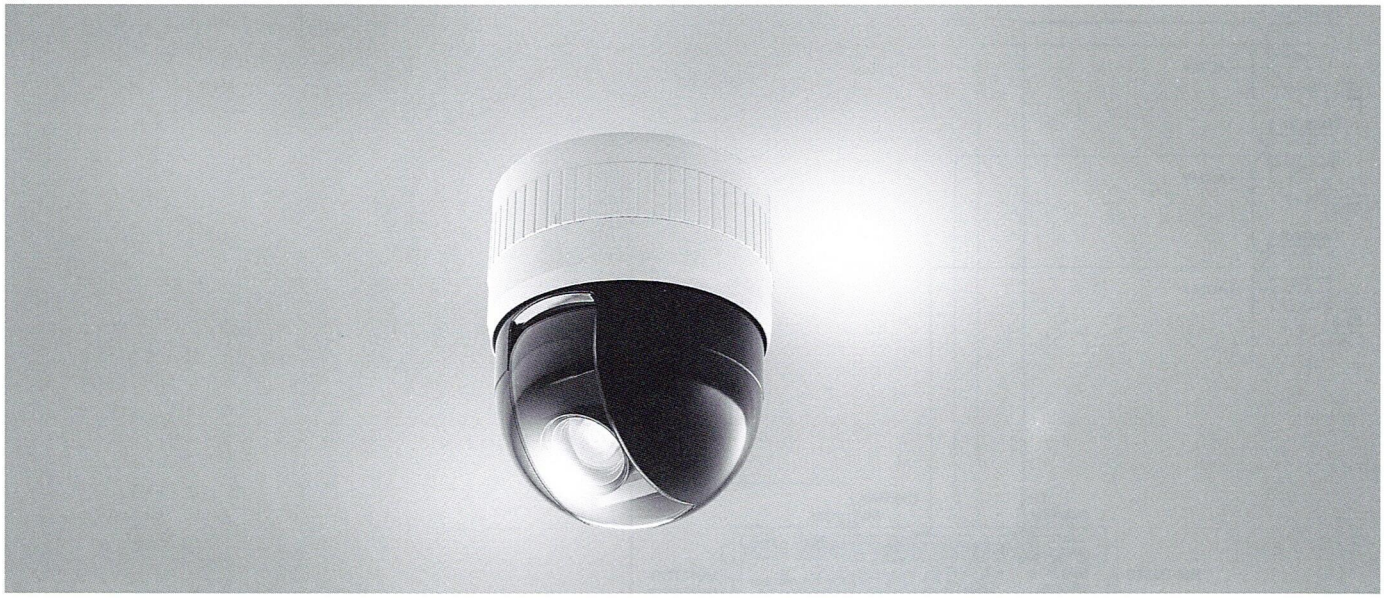


# Presettable Dome Colour Camera

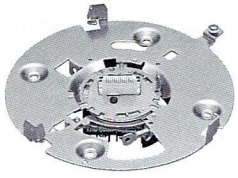
## TK-C675BE



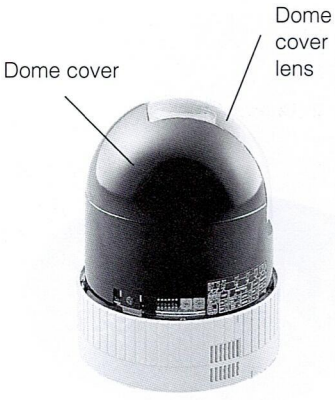


- 64 pre-settable positions
- Large aperture lens and highly sensitive CCD; minimum illumination 2.8 lux
- High quality optical distortion compensating dome cover
- 16X 4.5 to 72 mm zoom ratio; F 1.2 at wide angle
- Maximum 2 second zoom speed
- Wide coverage angle; Horizontal 3.8 to 56 degrees, vertical 2.9 to 44 degrees
- 360 degree endless panning
- Maximum 240 degree/second panning speed
- 180 degree "Auto Flip" flips the camera over by 90 degrees at the tilting limit so that tilting can continue.
- One-touch auto focus capability
- RS-422/RS-485 control for point to point and multi-drop connection
- Machine ID up to 32
- With three Preset Sequence (Auto Patrol) Mode setting 64 presettings, the TK-C675BE provides surveillance coverage of an area by panning either at random or sequentially.
- The Area Title function divides the space covered by a camera into sixteen units, with a 16-character ID allocated to each unit. At the touch of a button the user can accurately position the camera to view a designated area.
- The camera can be set up for automatic panning to constantly patrol the area under surveillance.

TOP VIEW



BOTTOM VIEW




View when the camera body cover is removed.

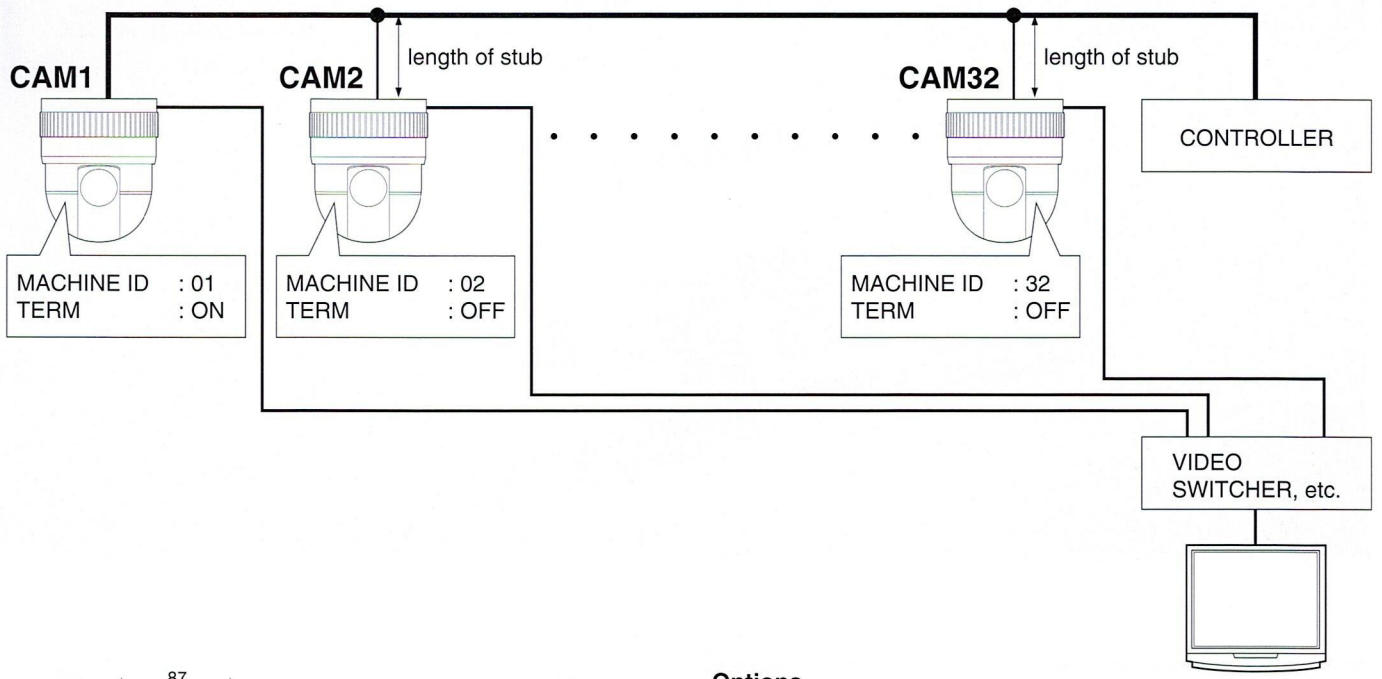


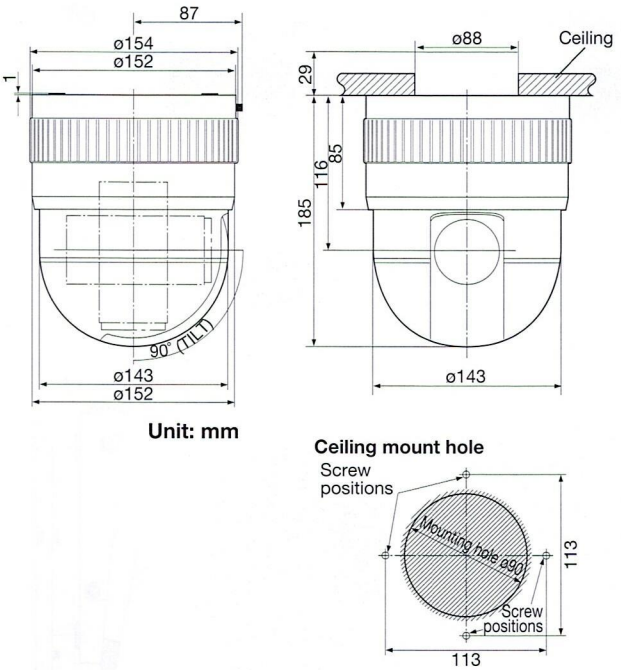
All model numbers, specifications and prices are subject to change without notice.

# Presettable Dome Colour Camera

# TK-C675BE

**Basic system**



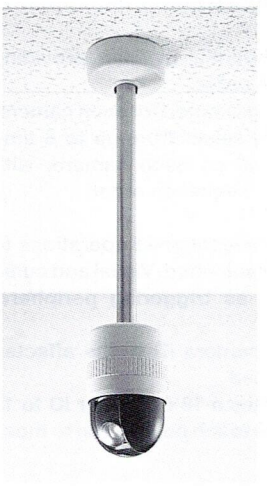




Unit: mm

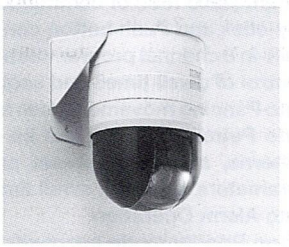
**Ceiling mount hole**




**Options**



**WB-S571U**
**Ceiling hanger pole**



**WB-S572U**
**Wall mounting bracket**

**WB-S573U**
**Ceiling direct mounting bracket**

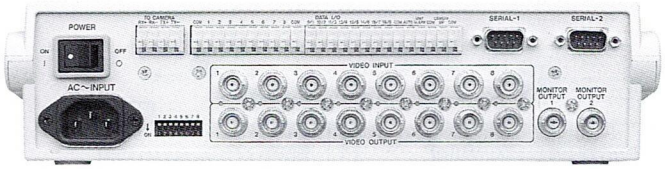
**WB-S575E**
**Ceiling embedding bracket**

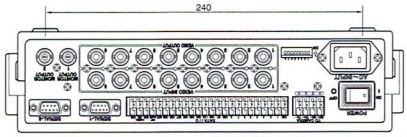
All model numbers, specifications and prices are subject to change without notice.

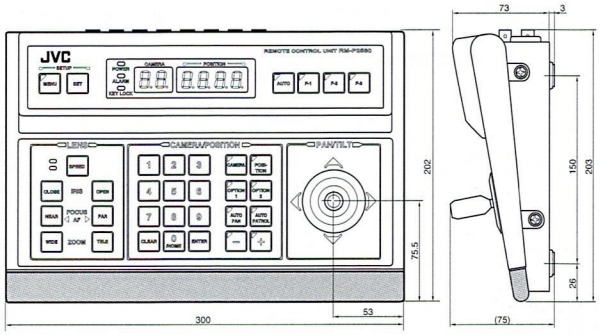
# 8 Channel Remote Control Surveillance System

## RM-P2580E 8 Camera Control and Switching

- Control Pan, Tilt, Zoom, Focus, Iris and Set-up menus on up to 8 TK-C675B dome cameras independently, at a distance of up to 1.2 km (3900 feet) of communication cable.
- Joy-stick and Push button control.
- Built-in 8 channel programmable sequential switcher, providing control of dwell times and sequence order.
- Auto Panning movements can be programmed for each camera.
- Auto Patrol programs can be set to select from up to 8 time patterns, across 64 preset positions on each camera, with parameters including dwell time and sequence order.
- Auto Alarm Operation:
  Alarm Priority mode interrupts pre-programmed operations to view a scene associated to the alarm activated. Visual and audio alarms can be activated, as well as triggering peripheral equipment.
  Manual Priority mode displays the camera ID of the affected area, but operation remains unaffected
- Control of Area title function, allocates a 16 character ID to 16 pre-set camera areas, and allows one touch positioning to those areas.
- One Push Auto Focus.
- Operation Lock function disables joystick and keypad to prevent operating errors.
- Remote Control Interfaces: RS-485 for camera, RS-232C for external units such as Timelapse VTR or frame switcher.
- 8 video inputs with additional 8 loop through outputs.




Unit: mm



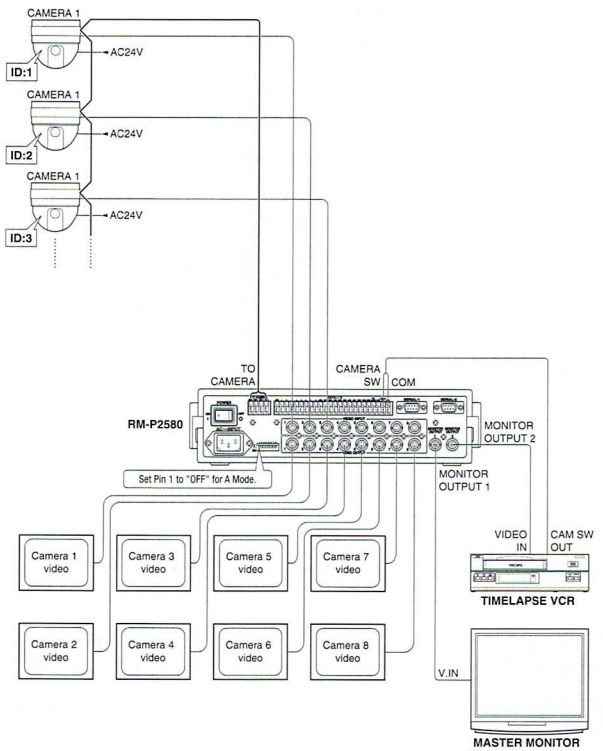
All model numbers, specifications and prices are subject to change without notice.

# 8 Channel Remote Control Surveillance System

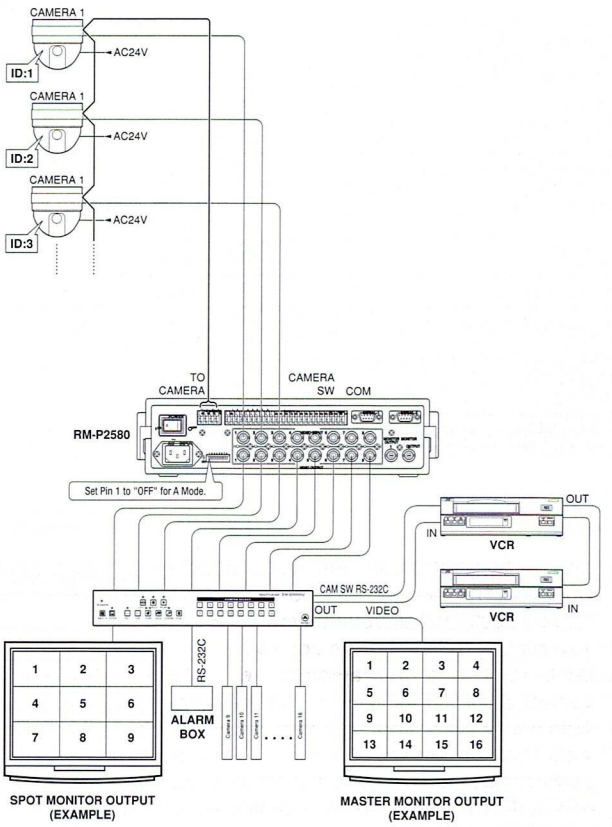
## RM-P2580E 8 Camera Control and Switching



### Basic System




### Applied System




| | |
|---|---|
| Controllable camera | TK-C675B |
| Number of connectable cameras | Mode A: 8 units<br>Mode B: 16 units |
| Cable length | Up to 1.2 km, 3900 feet |
| Date I/O terminals | Up to 16 |
| Alarm Inputs/outputs | Up to 16 |
| Unit alarm output | 1 line (open collector) |
| Auto output | 1 line (open collector) |
| Camera switching circuit | 1 |

| | |
|---|---|
| Video I/O | |
| Number of inputs | 8 BNC (loop through)<br>line levelComposite, 1V (p-p) |
| Number outputs | 2 BNC |
| Supply voltage | AC 100 — 240 V |
| Power consumption | Approx. 3 W |
| Ambient temperature | (operating)-10 to 50°C<br>(recommended) 0 to 40°C |
| Weight | Approx. 1.5 kg(3.3 lbs.) |
| Dimensions | 300 (W) x 73 (H) x 203 (D) mm<br>(11-13/16" x 2-7/18" x 8") |

All model numbers, specifications and prices are subject to change without notice.

# Specifications



| | TK-AM200E | TK-C553E | TK-C675BE |
|---|---|---|---|
| Signal system | Based on PAL standard | ← | ← |
| Image device | 1/4" Interline Transfer CCD | ← | 1/3" Interline Transfer CCD with complementary colour filter |
| Effective picture elements | 440K pixels (753H x 582V) | ← | 440 K pixels (771H x 492V) |
| Video process circuit | Analogue | ← | ← |
| Sync system | Internal / Line lock | ← | ← |
| Sync input | BB or VBS (BNC) | ← | ← |
| Scanning frequency (normal) | (H) 15,625 Hz /(V) 50.0 Hz | ← | ← |
| Video output | Composite video signal (VBS), 1Vp-p 75 ohms unbalanced BNC | | ← |
| Video S/N | 50 dB (AGC off) | 50 dB | 48 dB (AGC off) |
| Horizontal resolution | 470TV lines | ← | 480 TV lines (typical) |
| Minimum required illumination | 4 lux with cover<br>1.5 lux without cover | ← | 2.8 lux (F1.2) AGC on |
| Electronic shutter | Auto | ← | ← |
| AES (automatic electronic shutter) | 1/50-1/10,000 sec | ← | ← |
| Slow shutter | na | ← | ← |
| Auto Iris output | na | ← | ← |
| White Balance | Atomatic tracking white balance(ATW), Manual | | ← |
| BLC (backlight compensation) | Available by adjustment of light metering area position | | 4 patterns/off |
| AGC (automatic gain control) | on/off | ← | ← |
| Camera ID | 16 characters | 24 characters | 16 characters |
| Setup menu | yes | ← | ← |
| Remote control input | RS-232C, RS-422A full duplex, RS-485 | RS-422A, RS-485 | ← |
| Lens mount | na | ← | ← |
| Power supply requirement | 24V AC, 50/60 HZ | 24V AC, 50/60 HZ, 12V DC | 24V AC, 50/60 HZ |
| Power Consumption | 570mA | Approx. 300mA | Approx. 1.4A |
| Operating tempurature range | - 10 to 50 deg c | ← | ← |
| Weight | Approx. 0.8kg | Approx. 570g | 2.0kg |
| Cable lenth | na | ← | ← |
| Zoom Ratio | 2x electronic zoom | 2x digital zoom (varifocal lens) | 16 x, F 4.5 to 72 mm |
| Iris Range | na | ← | F 1.2 to F 272 |
| Zoom speed | na | ← | 2 seconds end to end |
| Focus speed | na | ← | approx. 1 second (one push) |
| Panning | 145 degrees | 90 degrees | 360 degrees enldess |
| Panning speeds | 2, 4, 6, 12, 20, 40, 60, 80 degrees/sec (manual mode),<br>4 degrres/sec (Auto Pan mode)<br>120 degrees/sec (Preset maximum) | na | 240,80, 60, 40, 20, 12, 6, 4, 2 degrees/sec |
| Tillting speeds | 2, 4, 6, 12, 20, 40, 60, 80 degrees/sec (manual mode),<br>120 degrees/sec (Preset maximum) | na | 120, 60, 40, 30, 20, 10, 6, 2, 1 degrees/sec |
| Limit of infrared Illumination | na | ← | ← |
| Auto illumination | na | ← | ← |



All model numbers, specifications and prices are subject to change without notice.

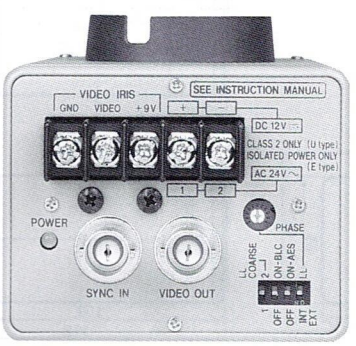
# 1/3" CCD Black and White Video Cameras



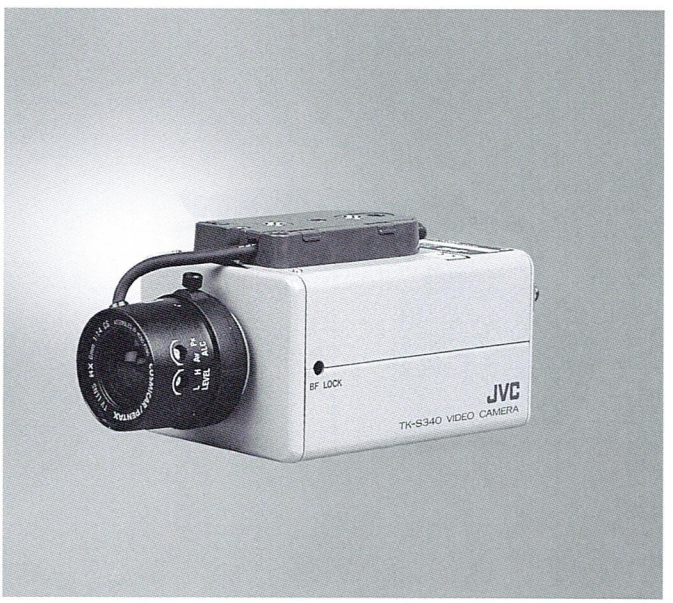
## TK-S241E 24 VAC/12 VDC

User supplied lens

- The 1/3" CCD image pick-up delivers 380 lines of horizontal resolution, and is supported by built-in contour and AGC circuits for sharp pictures at just 0.095 lux
- High-sensitivity, low after-image and low geometric distortion make the TK-S241E ideal where high quality images are required
- The camera accepts 24 V AC or 12 V DC for easy installation in various systems
- Simply flip a switch to select internal, external, or line lock synchronisation (requires 50 Hz AC power). This makes system integration even easier
- The Automatic Electronic Shutter continuously adjusts the shutter speed to give the correct exposure even when a manual iris or a lens without an iris is used.
- Built-in backlight compensation function improves image quality when shooting backlit subjects.
- Either C-mount or CS-mount lens can be attached to the camera with the lens mount change function.




## TK-S340EG 220-240 VAC




User supplied lens

- High-quality CCD imaging of high sensitivity: 1/3" CCD image pick-up delivers 380 lines of horizontal resolution, with built-in contour and AGC circuits for sharp, distortion-free pictures under low light conditions – a minimum practical illumination of 0.3 lux
- Accepts 220 ~ 240 V AC
- Easy system integration: simply flip a switch to select internal, external, or line lock synchronisation (requires 50 Hz AC power)
- Automatic Electronic Shutter to give the correct exposure even when a manual iris or a lens without an iris in used
- Built-in back-light compensation function
- C or CS mount changeable

All model numbers, specifications and prices are subject to change without notice.

# 1/3" CCD Black and White Video Cameras

## TK-S350EG 220-240 VAC

**(No EN50130) Please check for availability.**

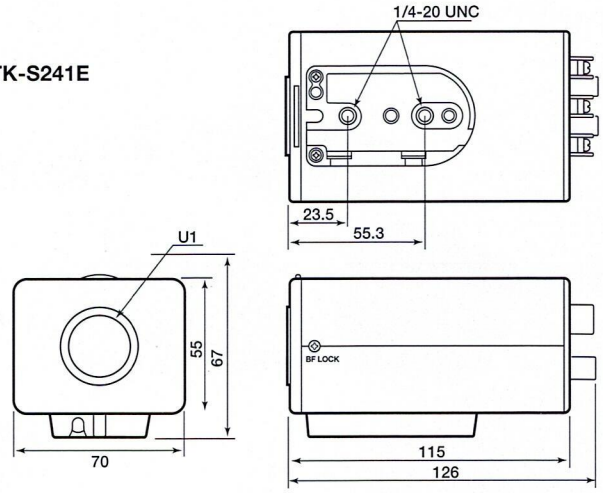
User supplied lens

- The 1/3" CCD image pick-up delivers 560 lines of horizontal resolution, and is supported by built-in contour and AGC circuits for sharp pictures at just 0.3 lux.
- High-sensitivity, low after-image and low geometric distortion make the TK-S350EG ideal where high quality images are required.
- The camera accepts 220 V to 240 V AC power.
- A switch to select internal, external, or line makes system integration even easier.
- The Automatic Electronic Shutter continuously adjusts the shutter speed to give the correct exposure even when a manual iris or a lens without an iris is used.
- Built-in backlight compensaton function improves image quality when shooting backlit subjects.
- Either C-mount or CS-mount lens can be attached to the camera with the lens mount change functon.

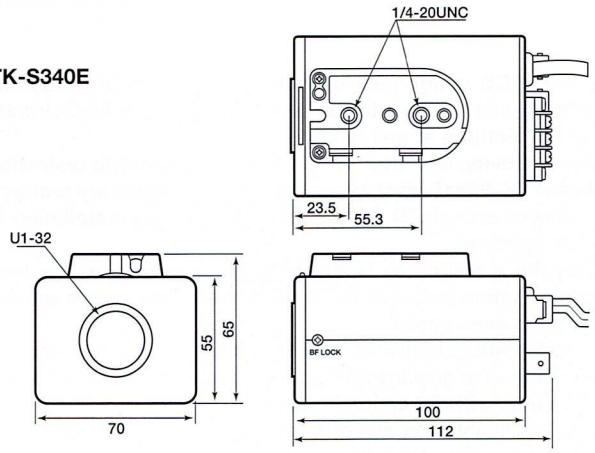
## Dimensions

### TK-S241E/TK-S340E/TK-S350EG

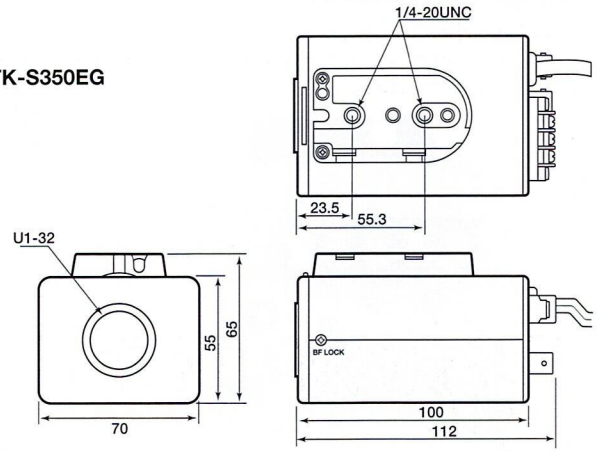
**TK-S241E**




**TK-S340E**




**TK-S350EG**




Unit: mm



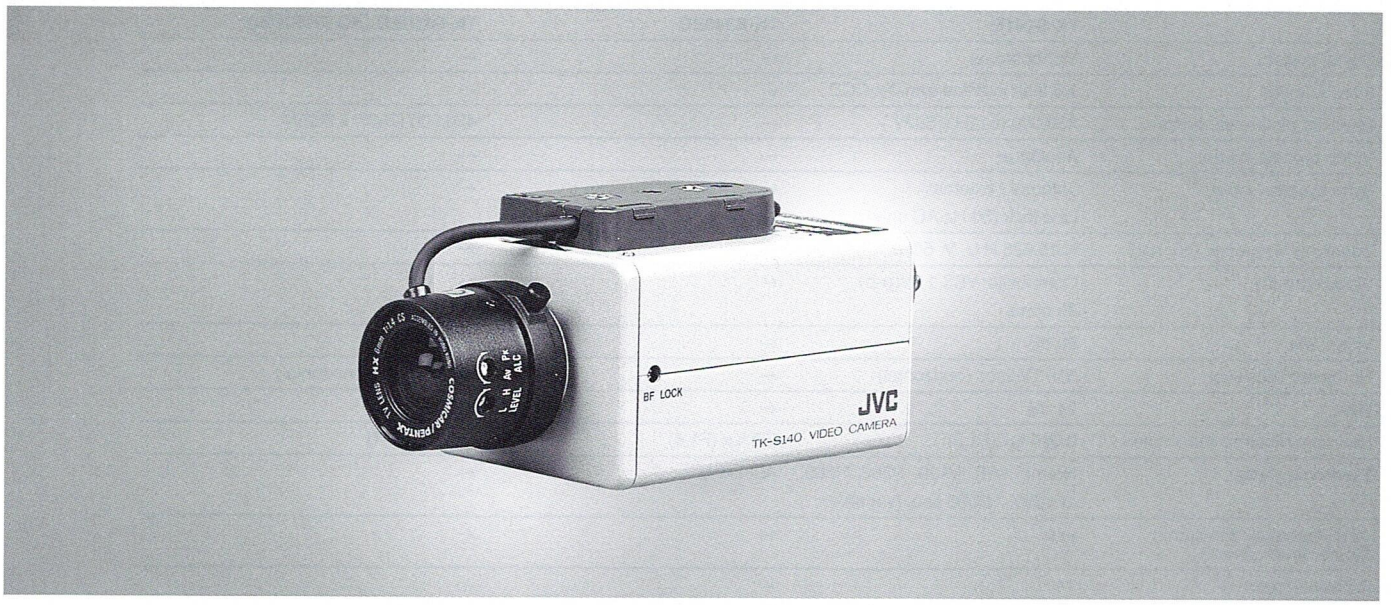
All model numbers, specifications and prices are subject to change without notice.

# 1/3" CCD Single Cable Video/Power Camera

## TK-S140E

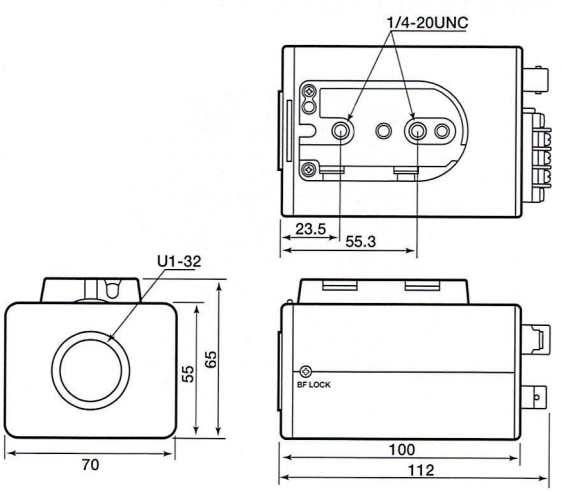
**(No EN50130) Please check for availability.**






User supplied lens

- With high-sensitivity, no after-image and no geometrical distortion, the TK-S140E is the perfect choice for a wide range of system applications — connected directly to a monitor or through a camera control unit
- An innovative multiplexing system feeds pictures, power, and sync through a single coaxial cable for enhanced operation and easy connection. A cable length selector switch optimises functions for coaxial cable lengths up to 500 m between camera and camera control unit.
- The Automatic Electronic Shutter (AES) continuously adjusts speed to ensure correct exposures under all lighting conditions, even when a manual iris lens is used.
- The built-in backlight compensation (BLC) function provides added flexibility by ensuring excellent image quality when shooting backlit subjects
- Back-focus adjustment function allows easy adjustment and installation
- External Sync is switchable between internal/external lock
- Either C-mount or CS-mount lens can be attached to the camera by adjusting the back focus




Unit: mm

# Specifications



*Please check for availability.

| | TK-S241E | TK-S340EG | TK-S350EG (NO EN50130)* |
|---|---|---|---|
| Signal system | Monochrome | ← | ← |
| Image device | 1/3 inch interline transfer CCD | ← | ← |
| Effective picture elements | 300,000 (512H x 582V ) | ← | 430,000 (753H x 582V) |
| Video process circuit | Analogue | ← | ← |
| Sync system / input | Internal / External/ Line lock (50 Hz AC only) | ← | ← |
| Scanning frequency (normal) | H:15.625 kHz, V: 50Hz | ← | ← |
| Video output | Composite: VBS 1.0V(p-p), 75 ohms | ← | ← |
| Video S/N | 50 dB | ← | 48 dB |
| Horizontal resolution | 380 TV lines (horizontal) | ← | 560 TV lines (horizontal) |
| Gain | 24 dB | ← | ← |
| Minimum required illumination | 0.095 lux (F1.2) | 0.3 lux (F1.4) | 0.3 lux (F1.4) |
| Electronic shutter | Normal 1/50, 1/120, 1/250, 1/500, 1/ 1000, 1/2000 sec, (variable) | Auto only | ← |
| AES (Automatic Electronic Shutter level control) | yes | ← | ← |
| Detail correction | 14 | ← | ← |
| Auto iris output | Video/DC | ← | ← |
| BLC (Back Light Compensation) | Yes | ← | ← |
| Lens mount | C / CS mount | ← | ← |
| Power supply requirement | 24 V AC 50/60Hz, 12V DC | 220 to 240 V AC, 50/60 Hz | ← |
| Power consumption | 3 W | 3.3 W | 4 W |
| Operating temperature range | -10 to 50°C (0 to 40°C recommended ) | ← | ← |
| Dimensions | 70 (W) x 67 (H) x126 (D) mm | 70 (W) x 65 (H) x112 (D) mm | ← |
| Weight | 510 g (without lens) | 800 g | 800 g |
| Camera cable length | Not specified | About 2.4 meters | ← |



All model numbers, specifications and prices are subject to change without notice.

# Specifications

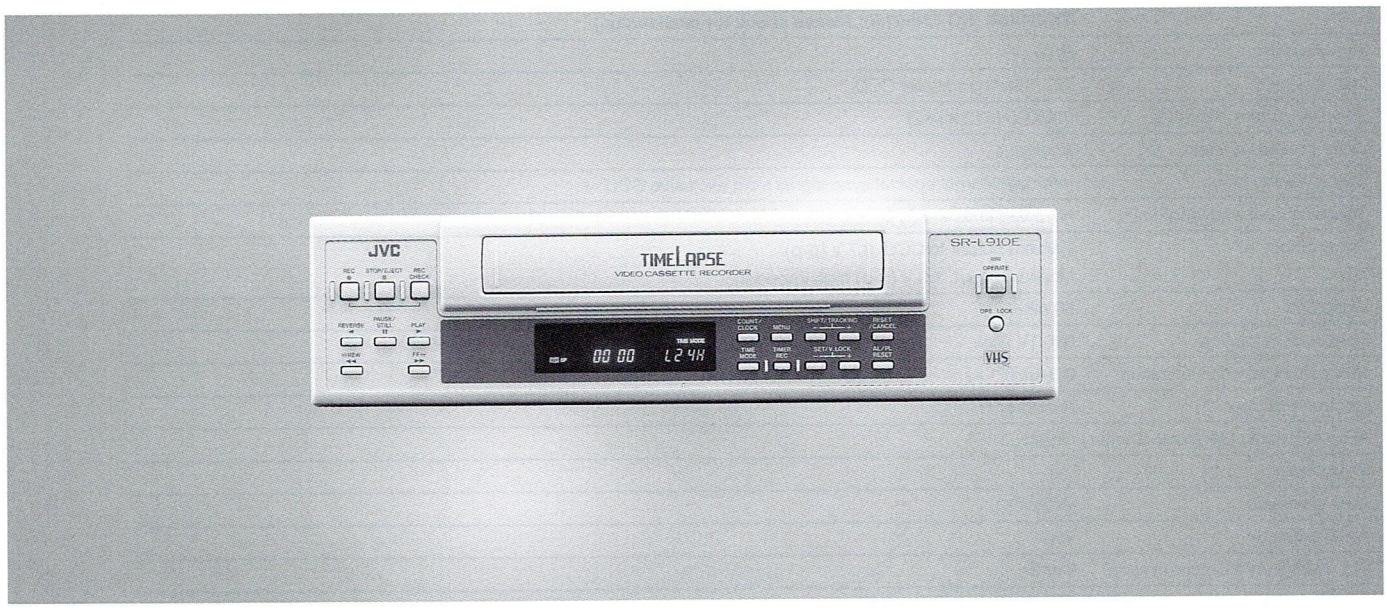


| | TK-S140E (NO EN50130: Please check for availability.) |
|---|---|
| Signal system | B/W |
| Image device | 1/3" Interline transfer CCD |
| Effective picture elements | 300,000 (512 x 582) |
| Video process circuit | Analogue |
| Sync system / input | Internal/external special sync signal from exclusive CCU |
| Scanning frequency (normal) | H:15.625 kHz, V: 50 Hz |
| Video output | Camera output to CCU: 0.7 V (p-p)<br>Monitor output: 1.0 V (p-p) high impedance |
| Video S/N | 50 dB |
| Horizontal resolution | 380 TV lines |
| Minimum required illumination | 0.3 lux (F1.4) |
| Electronic shutter | Auto only |
| AES (Automatic Electronic Shutter) | On/off |
| Slow shutter | -na |
| Auto iris output | Video/DC |
| White balance | -na |
| BLC (Back Light Compensation) | On/off |
| AGC (automatic gain control) | 24 dB |
| Camera ID | From CCU |
| Setup menu | -na |
| Remote control input | -na |
| Lens mount | C/CS mount |
| Power supply requirement | From CCU: 15 V to 21 V DC, 290 mA |
| Power consumption | 120 mA (22 V) to 160 mA (16 V) |
| Operating tempurature range | -10 to 50°C |
| Weight | 410 g |
| Cable length | Long (up to 500 m) or short compensation |

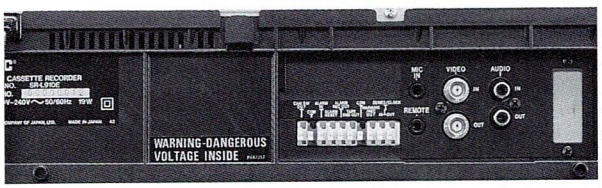
# 24 Hour Video/Audio VHS Timelapse Video Recorder

## SR-L910E 24 Hours

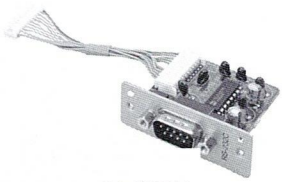




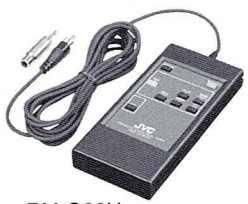

- 3, 12, 24 hours recording and playback modes
- Black and white recording mode
- Optional RS-232C control
- Aluminium diecast mechanism for high reliability
- FDP counter display / hour meter on screen
- Internal timer recording mode
- Automatic recording check mode
- Sensor recording mode
- Tape end buzzer, output and indication
- Selectable alarm record duration (5, 10, 15, 30, 60, 120, 180, Manual)
- On screen menu setting
- Automatic head cleaning
- Quick-response full-loading mechanism
- Picture control (normal / sharp)
- Summer time adjustment
- Wired remote control (RM-G30U)
- Double push type key lock operation
- Warning display
- Compact size 360 x 94 x 298 mm (14.2" x 3.7" x 11.7") W x H x D



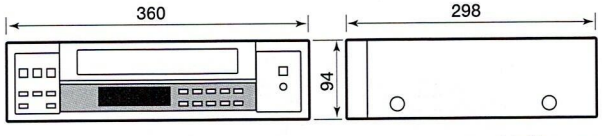

| Display indication | Mode | Available recording time (hour) | | | | | Recording/ playback interval (sec.) | Audio recording | Tape running |
|---|---|---|---|---|---|---|---|---|---|
| | | E-30 | E-60 | E-90 | E-120 | E-180 | | | |
| 3H | VHS Standard | 0.5 | 1 | 1.5 | 2 | 3 | 0.02 | Possible | (Continuous) 23.39 mm/sec. |
| L12H | 12-hour Timelapse | 2 | 4 | 6 | 8 | 12 | 0.1 | Possible | (Continuous) 4.68 mm/sec. |
| L24H | 24-hour Timelapse | 4 | 8 | 12 | 16 | 24 | 0.18 | Possible | (Continuous) 2.60 mm/sec. |



SA-K97U
RS-232C interface unit



RM-G30U
Remote control unit



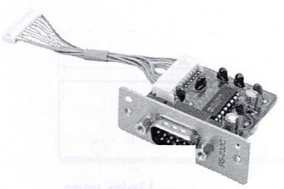

Unit: mm

All model numbers, specifications and prices are subject to change without notice.

# 10 Days (240 Hours) Video/Audio VHS Timelapse Video Recorder

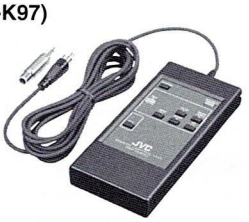
## SR-9240E 10 Days (240 Hours)

- **Up to 240 hours of high-density recording — you can choose from 3 hours (SP mode) or 12/24/48/72/96/120/168/240 hours (High-Density mode)**
- **Real-time audio recording in 3H, L12H and L24H**
- **Field recording playback**
- **Time/date generator**
- **FDP on screen counter display/hour meter**
- **Two types of time recording are available: date-based daily (up to 8 programmes) or day-of-the-week-based**
- **Date-based programme cancellation for up to 16 days**
- **Alarm recording function**
- **Sensor recording**
- **Up to 9 alarm inputs or power losses (failures) can be stored in memory**
- **Still, field advance and reverse playback**
- **External activation of recording**
- **Record check function allows you to check the status of the recording in progress**
- **The built-in head cleaner automatically cleans the heads whenever inferior picture quality is detected during recording check**
- **Error warnings on the front panel display include problems with cassette loading, cassette unloadring, or the transport system operation mode**
- **Series recording**
- **Camera switching function**
- **Power-off video pass through function**
- **Aluminium diecast machanism for long lasting reliability**
- **Easy to maintain solderless drum**
- **Optional RS-232C interface (SA-K97)**



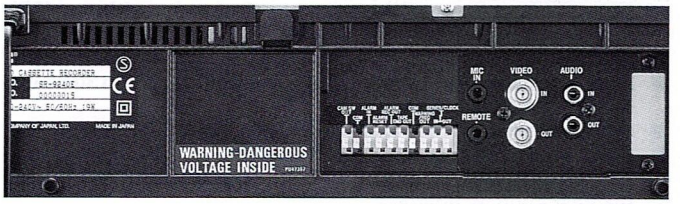
**SA-K97U**

RS-232C interface unit

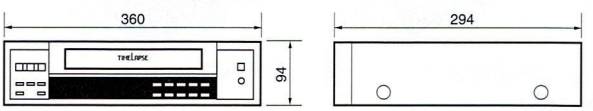


**RM-G30U**

Remote control unit




| Display indication | Mode | Available recording time (hours) | | | | | Recording/ playback interval (sec.) | Audio recording |
|---|---|---|---|---|---|---|---|---|
| | | E-30 | E-60 | E-90 | E-120 | E-180 | | |
| 3H | VHS Standard | 0.5 | 1 | 1.5 | 2 | 3 | 0.02 | Possible |
| L12H | 12-hour Timelapse | 2 | 4 | 6 | 8 | 12 | 0.1 | Possible |
| L24H | 24-hour Timelapse | 4 | 8 | 12 | 16 | 24 | 0.18 | Possible |
| 48H | 48-hour Timelapse | 8 | 16 | 24 | 32 | 48 | 0.34 | N/A |
| 72H | 72-hour Timelapse | 12 | 24 | 36 | 48 | 72 | 0.5 | N/A |
| 96H | 96-hour Timelapse | 16 | 32 | 48 | 64 | 96 | 0.66 | N/A |
| 120H | 120-hour Timelapse | 20 | 40 | 60 | 80 | 120 | 0.82 | N/A |



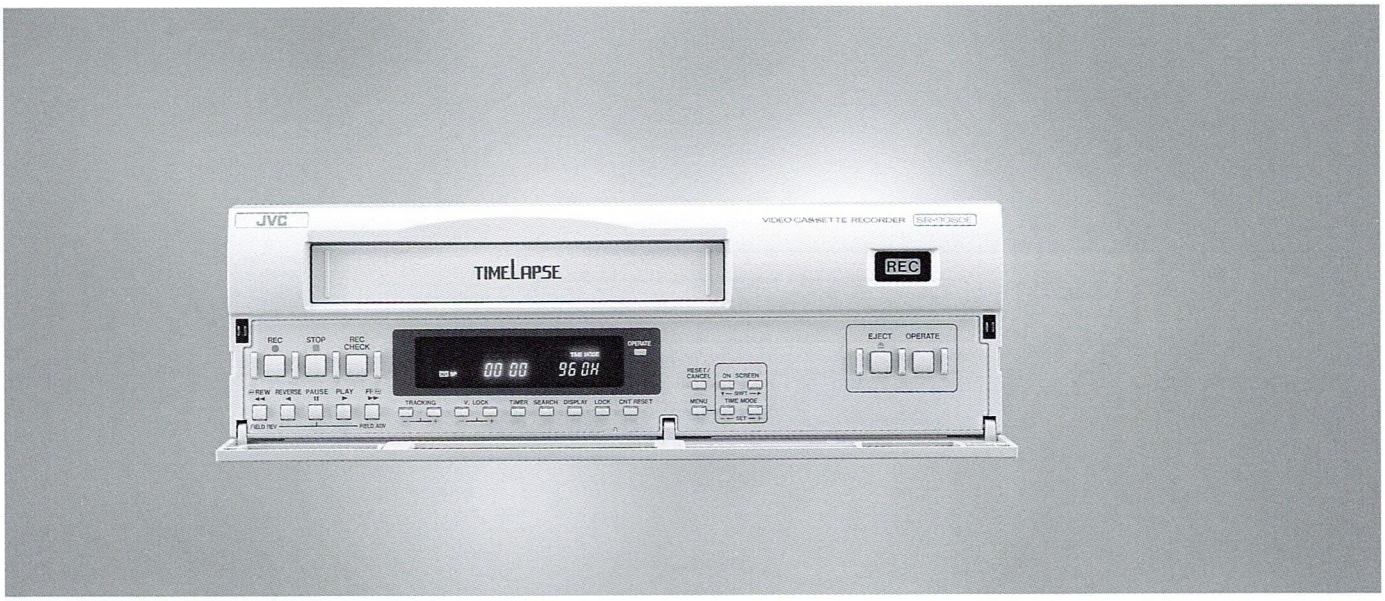

Unit: mm

All model numbers, specifications and prices are subject to change without notice.

# 40 Days (960 Hours) VHS Timelapse Video Recorder

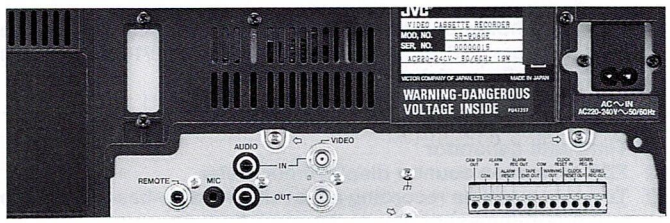
## SR-9080E 40 Days (960 Hours)



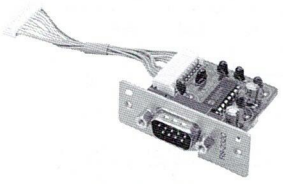



User spplied lens

- Up to 960 hours recording — you can choose from 3 hours (SP) and L12/L24/48/72/120/168/240/480/960 hours in a standard T-180 tape
- High-resolution recording system provides more than 300 lines even in the colour mode
- Audio recording in 3H, L12H and L24H
- Up to 8 programmes can be set for daily, weekly, or weekday time timer-recording and on up to 16 specific days throughout the year such as holidays
- Time/date generator with memory backup
- Alarm recording function automatically engages 3 hours mode
- Sensor recording engages record on alarm, even in stop mode
- Dates and times of up to 8 alarm inputs or 4 power losses (failures) can be displayed on-screen
- Tape position search functions automatically search the start of an alarm recording or search for a recording made at a specified date and time
- Recording with external activation signal
- Series recording
- Noiseless still, field advance and reverse playback
- Camera switching function
- Optional RS-232C interface (SA-K97)




| Time mode | Available recording time (hours) (E-180) | Recording/ playback interval (sec.) | Audio recording | Continuous tape running speed (mm/sec.) |
|---|---|---|---|---|
| 3H | 3 | 0.02 | Possible | 23.39 |
| L12 | 15 | 0.1 | Possible | 4.68 |
| L24 | 27 | 0.18 | Possible | 2.60 |
| 48H | 51 | 0.34 | - | - |
| 72H | 75 | 0.50 | - | - |
| 120H | 123 | 0.82 | - | - |
| 168H | 171 | 1.14 | - | - |
| 240H | 243 | 1.62 | - | - |
| 480H | 483 | 3.22 | - | - |
| 960H | 963 | 6.42 | - | - |

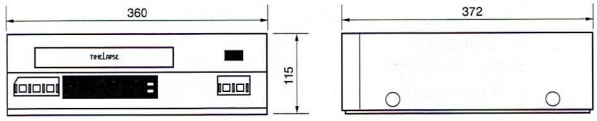


**SA-K97U**

RS-232C interface unit

**RM-G30U**

Remote control unit




Unit: mm

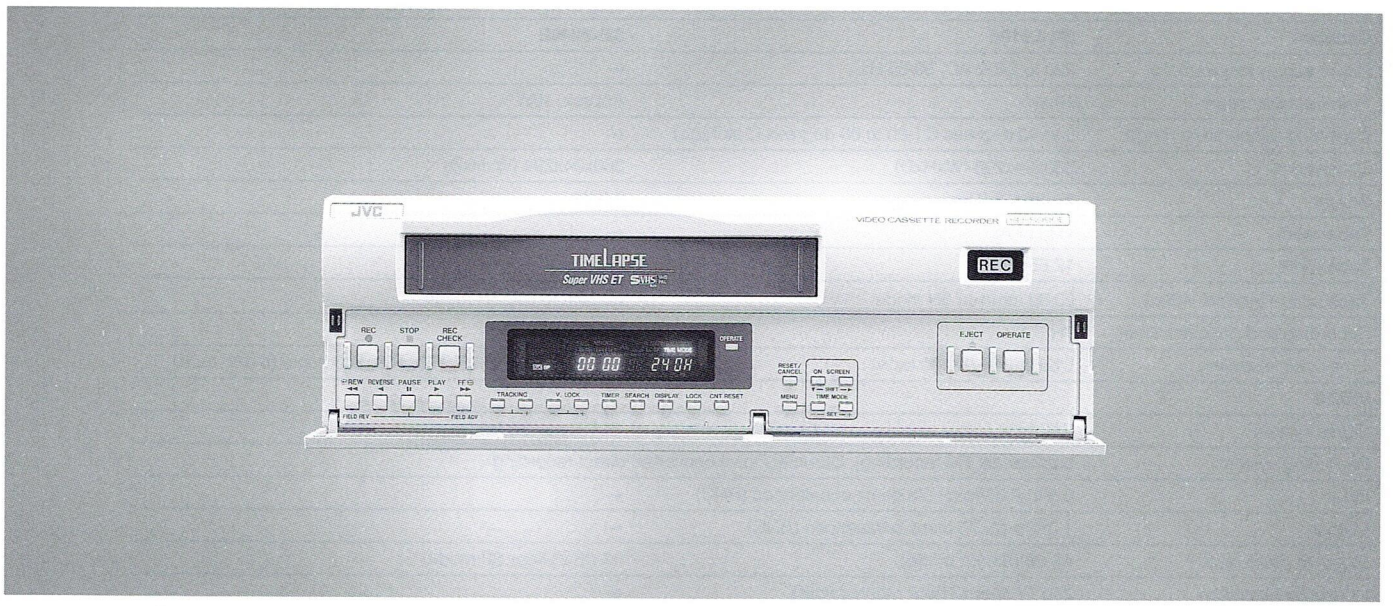


All model numbers, specifications and prices are subject to change without notice.

# S-VHS/S-VHS ET Timelapse Video Recorder

# SR-990E 10 Days (240 Hours)





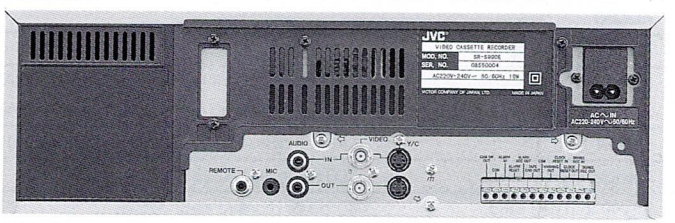

User spplied lens

Recording flexibility
- High picture quality S-VHS recording
- High-resolution colour recording of more than 400 lines with VHS tape (S-VHS ET)
- Up to 240 hours of timelapse recording with a 180-minute tape
- Audio recording in 3H, L12H and L24H timelapse recording mode
- Timer recording
- Time/date search (FF/REW)
- Time/date generator with memory backup

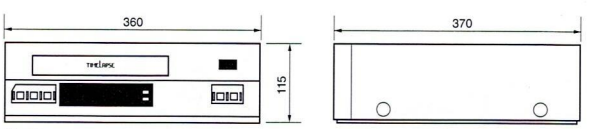
Versatile recording
- Alarm recording function
- Alarm/power loss memory
- Recording with external activation signal
- Tape position search
- Sensor (Event) recording
- Field recording/playback

System flexibility
- Series recording
- Noiseless still, field advance and reverse play
- Camera switching function
- Optional RS-232C interface

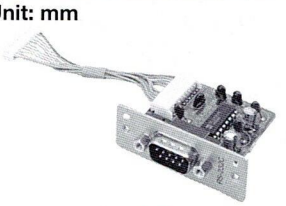
Other features
- Aluminium diecast mechanism for long-lasting reliability
- On-screen setup menu and mode display
- Automatic recording check mode
- Operation lock function
- Auto head-cleaning mechanism
- Warning function
- Power-off video through-out function
- Time adjust function
- Digital hour meter display
- Repeat playback/recording
- Alarm recording, tape end and warning electronic buzzer
- Counter end function
- External timer connection
- Summer time compensation function
- Wired remote control (optional)
- Detachable AC cable
- Reel counter



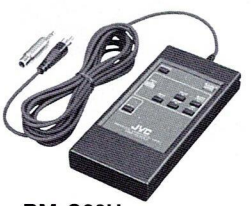

| Time mode | Available recording time (hours) (E-180) | Recording/ playback interval (sec.) | Audio recording | Continuous tape running speed (mm/sec.) |
|---|---|---|---|---|
| 3H | 3 | 0.02 | Possible | 23.39 |
| L12 | 15 | 0.1 | Possible | 4.68 |
| L24 | 27 | 0.18 | Possible | 2.60 |
| 48H | 51 | 0.34 | - | - |
| 72H | 75 | 0.50 | - | - |
| 120H | 123 | 0.82 | - | - |
| 168H | 171 | 1.14 | - | - |
| 240H | 243 | 1.62 | - | - |
| 480H | 483 | 3.22 | - | - |
| 960H | 963 | 6.42 | - | - |




Unit: mm



SA-K97U



RM-G30U

All model numbers, specifications and prices are subject to change without notice.

# Video Recorder Specifications



| General | SR-L910E | SR-9240E |
|---|---|---|
| Power supply requirement | 220 to 240V AC, 50/60 Hz | ← |
| Power consumption | 19W | Approx. 19W |
| Operating temperature range | 5 to 40 degrees C (-20 to 60 degrees C storage) | ← |
| Dimensions | 360x94x298 (WxHxD) | 360x94x294 (WxHxD) |
| Weight | Approx. 5.0 kg | 4.5 kg |
| Tape used | VHS / PAL | ← |
| Tape width | 12.65 mm | ← |
| Tape speed (normal video) | 23.39 mm/sec 3H mode | 23.39 mm/sec 3H mode |
| Recording and playback time | 3H | 3H |
| Timelapse recording | L12H/L24H (E-180 tape) | L12, L24, 48, 72, 96, 120, 168, 240 hours (E-180 tape) |
| **VIDEO** | | |
| Signal system | PAL type colour signal and CCIR monochrome signal, 625 lines / 50 fields | |
| Recording system | Luminance: FM recording, Chroma: Down converted direct recording | |
| Input | 0.5 to 2.0 V(p-p), 75 ohms unbalanced (BNC) | ← |
| Output | 1.0 V(p-p), 75 ohms unbalanced (BNC) | ← |
| Signal to noise ratio | 43 dB (3 hour mode) | 43 dB (3 hour SP mode) |
| Horizontal resolution | 240 TV lines (3 hour mode colour)<br>280 TV lines (3 hour mode B/W) | ←<br>← |
| **AUDIO** | | |
| Number of tracks | 1 (normal) | ← |
| Input | Line: -8 dBs, 50 K-ohms unbalanced (RCA)<br>Mic: -67 dBs, 600 ohms unbalanced (RCA) | ← |
| Output | Line: -8 dBs, 1 K-ohms unbalanced (RCA) | ← |
| Frequency response | 100 Hz to 10 kHz (3 hour mode) | ← |
| Signal to noise ratio | 40 dB or more (3 hour mode) | ← |
| **OTHER** | | |
| Time date generator | Display: Day, month, year, hours, minutes, seconds, recording mode<br>Positions: 4<br>Character size: 16 H | |
| Memory backup | Approx. 5 years | ← |
| Alarm input | Grounding type contact | ← |
| Camera Switching | Negative pulse output (approx. 5 milliseconds) | ← |
| Accessories provided | Backup battery x 1<br>Power cable | ← |
| Accessory options | RM-G30U remote control unit | ← |
| | SA-K97U RS-232C interface kit | ← |



All model numbers, specifications and prices are subject to change without notice.

# Video Recorder Specifications



| General | SR-9080E | SR-S990E |
|---|---|---|
| Power supply requirement | 220 to 240V AC, 50/60 Hz | ← |
| Power consumption | Approx. 19W<br>(6W in standby mode) | Approx. 20W<br>(6W in standby mode) |
| Operating temperature range | 5 to 40 degrees C<br>(-20 to 60 degrees C storage) | ← |
| Dimensions | 360X115X372 mm (WxHxD) | 360x115x370 mm (WxHxD) |
| Weight | 5.5 kg | 5.5 kg |
| Tape used | VHS / PAL | S-VHS / VHS for ET |
| Tape width | 12.65 mm | ← |
| Tape speed (normal video) | SP mode(3H) 23.39 mm/sec | 23.39 mm/sec (3H mode) |
| Recording and playback time | 3 hours (SP mode) | ← |
| Timelapse recording | L12, L24, 48, 72, 120, 168, 240,<br>480, 960 hours (E-180 tape) | 3H, L12, L24, 24, 48, 72, 120, 168, 240 (E-180 tape) |
| **VIDEO** | | |
| Signal system | PAL type colour signal and CCIR monochrome signal, 625 lines / 50 fields | |
| Recording system | Luminance: FM recording, Chroma: Down converted direct recording | |
| Input (Composite) | Composite: 0.5 to 2.0 V(p-p), 75 ohms unbalanced (BNC) | ← |
| Input (Y/C) | na | Y: 1.0 V(p-p), 75 ohms unbalanced<br>C: 0.3 V(p-p), 75 ohms unbalanced |
| Output (Composite) | 1.0 V(p-p), 75 ohms unbalanced (BNC) | ← |
| Output (Y/C) | na | Y: 1.0 V(p-p), 75 ohms unbalanced<br>C: 0.3 V(p-p), 75 ohms unbalanced |
| Signal to noise ratio | 43dB (3 hour SP mode) | 43 dB or more (S-VHS/S-VHS ET: 3H hour mode) |
| Horizontal resolution | 300 TV lines (3 hour mode colour) | 400 TV lines or more |
| **AUDIO** | | |
| Number of tracks | 1 (normal) | ← |
| Input | Line: -8 dBs, 50 K-ohms unbalanced (RCA)<br>Mic: -67 dBs, 600 ohms unbalanced (RCA) | ← |
| Output | Line: -8 dBs, 1 K-ohms unbalanced (RCA) | ← |
| Frequency response | 100 Hz to 10 kHz (3 hour mode) | ← |
| Signal to noise ratio | 40 dB or more (3 hour mode at 4% distortion level) | ← |
| **OTHER** | | |
| Time date generator | Display: Day, month, year, hours, minutes, seconds, recording mode, alarm input data, power loss time<br>Positions: 1<br>Character size: 16 H | |
| Memory backup | Approx. 2 years | Approx. 2 year |
| Alarm input | Grounding type contact | ← |
| Camera Switching | Negative pulse output (approx. 5 milliseconds) | ← |
| Accessories provided | Backup battery<br>Power cable | Power cable |
| Accessory options | RM-G30U remote control unit<br>SA-K97U RS-232C interface kit | ← |

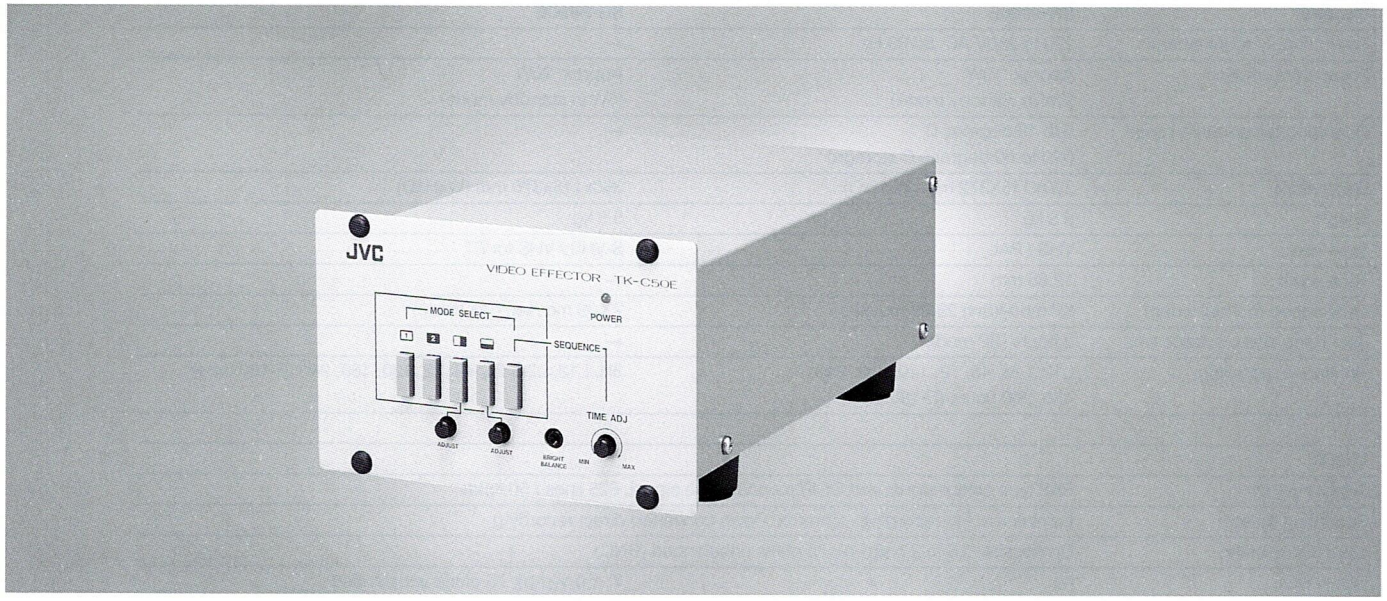
All model numbers, specifications and prices are subject to change without notice.

# Effector (2-channel Video Split Image)

## TK-C50E

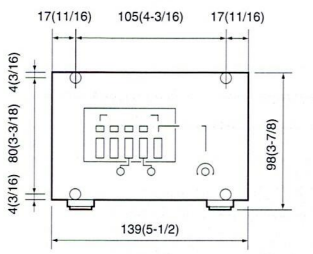
**(No EN50130) Please check for availability.**

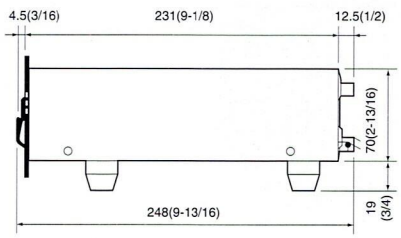





- **View two sources on one monitor**
- **Video splitter adopting a full genlock system**
- **Accepted cameras: built-in full genlock cameras**
- **Two image signals are sent out separately (top/bottom, left/right, each corner)**
- **Sequential switching capability**

| | |
|---|---|
| Signal system: | Based on PAL standard |
| Video input 1: | Composite video signal 1.0 Vp-p, 75 ohms (BNC)<br>Bridged output terminal (BNC), with termination switch |
| Video input 2: | Composite video signal 1.0 Vp-p, 75 ohms (BNC)<br>*Input signals should be gen-locked to those at the video input 1. |
| Selection function | Mode selection switches<br>"1/2/■/▬/SEQUENCE" |
| Adjustment function: | 1) Switching time adjustment volume "SEQUENCE-TIME ADJ" Adjustment range: approx. 1 sec. (MIN) to approx. 40 sec. (MAX)<br>2) Horizontal screen ratio adjustment volume "■-ADJUST" Adjustment range: Erasable for entire screen of left screen and right screen<br>3) Vertical screen ratio adjustment volume "▬ADJUST" Adjustment range: Erasable for entire upper screen and lower screen<br>4) Brightness balance adjustment range: ±10% (black level)<br>*Adjustment only for input ■ screen |
| Power requirement: | 5 V DC (± 5%) or 12 V DC (± 10%) |
| Power consumption: | 0.26 VA (5 V DC)/0.64 VA (12 V DC) |
| Weight: | 1.25 kg |
| Accessories: | 5V DC power cable (DIN 5-pin – DIN 5-pin, cable length: Approx. 2 m) |




Unit:mm(inches)

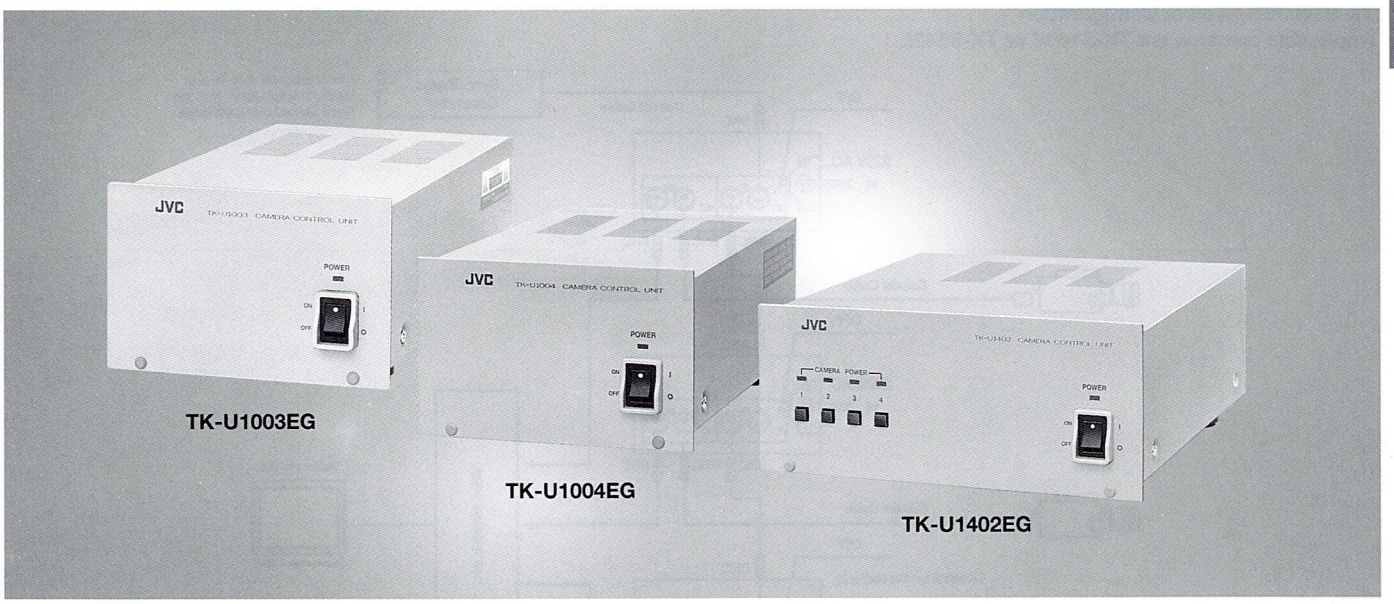


All model numbers, specifications and prices are subject to change without notice.

# Single Cable Video/Power Camera Control Units

## TK-U1003EG* TK-U1402EG* up to 4 Cameras
## TK-U1004EG* with Camera ID






TK-U1003EG

TK-U1004EG

TK-U1402EG

***(No EN50130) Please check for availability.**

**TK-U1003EG , TK-U1004EG and TK-U1402EG**

- Coaxial multiplex systems that transmit images, power, and synchronising current through one coaxial cable; excellent for installation and system formation.
- Cable compensation circuits display clear images even when longer cables are used.
- Loop through input for external sync signal aids in systemisation.

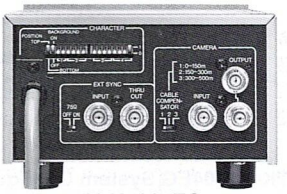
**TK-U1004EG**

- The camera number is superimposed for ease of identification.

**TK-U1402EG**

- Simultaneously drives up to four coaxial multiplexed video cameras.

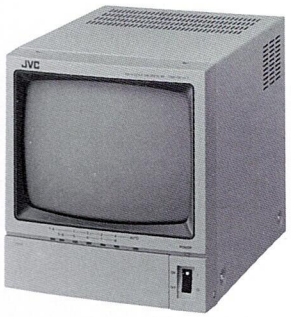
TK-U1003EG

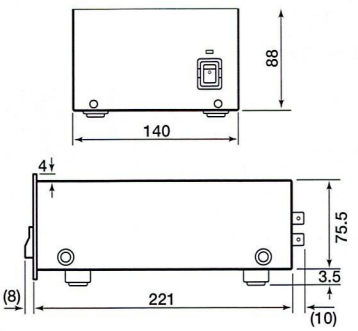


TK-U1004EG

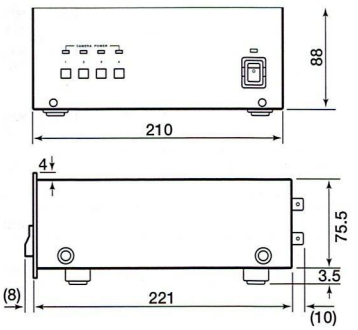
TK-U1402EG

- **TM-9043EG**
  9 inch B/W Monitor with integrated power for 4 cameras and auto switching




TK-U1003EG/TK-U1004EG



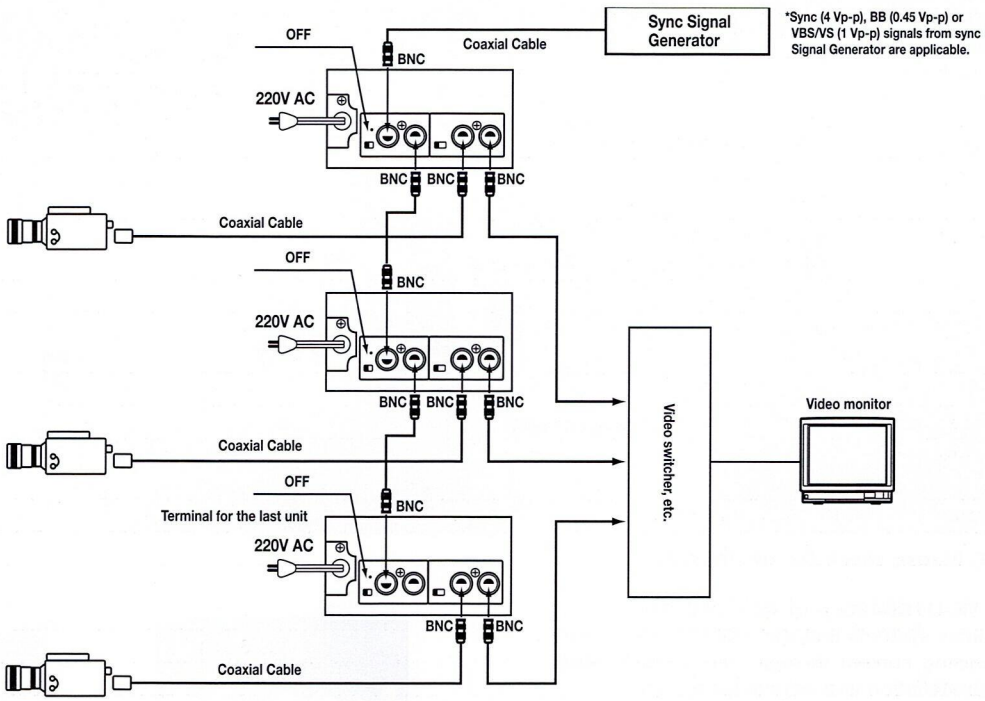

TK-U1402EG

Unit:mm

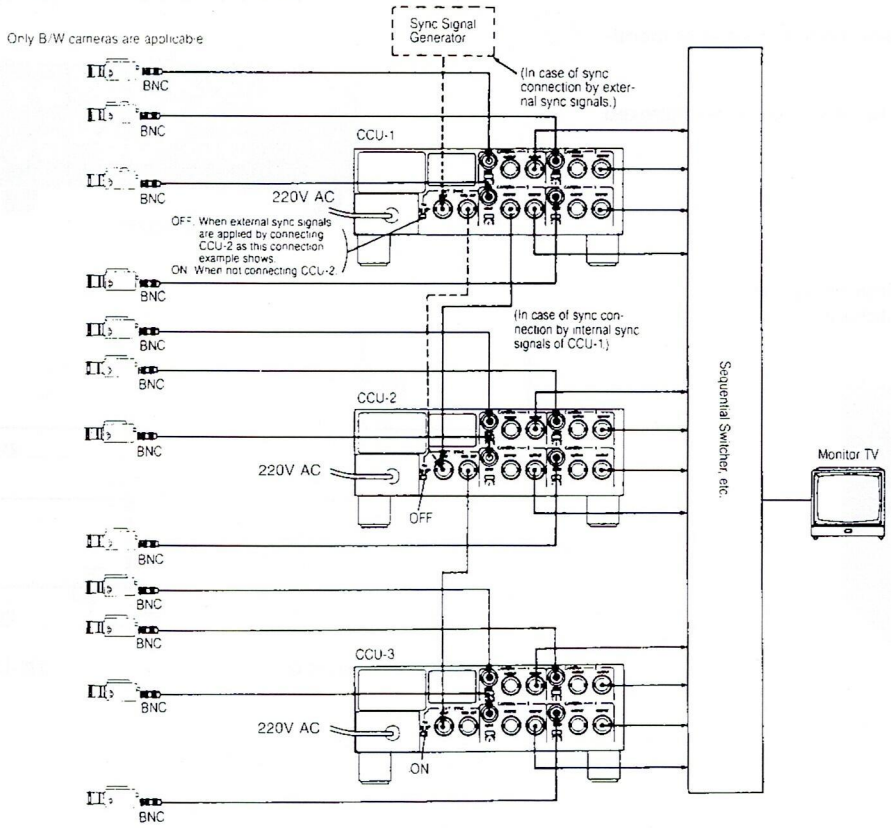
# System Configuration



**TK-U1003EG System Configuration**
**Applicable cameras are TK-S140E or TK-S542E.**




**TK-U1004EG System Configuration**
**Applicable cameras are TK-S140E or TK-S542E.**


Only B/W cameras are applicable
Sync Signal Generator
(In case of sync connection by external sync signals.)
BNC
CCU-1
220V AC
OFF: When external sync signals are applied by connecting CCU-2 as this connection example shows
ON: When not connecting CCU-2
(In case of sync connection by internal sync signals of CCU-1.)
CCU-2
OFF
Sequential Switcher, etc.
Monitor TV
CCU-3
ON



All model numbers, specifications and prices are subject to change without notice.

# Specifications



| | TK-U1003EG* | TK-1004EG* | TK-1402EG* |
|---|---|---|---|
| Applicable cameras | TK-S542E and TK-S140E | ← | ← |
| Camera Input | 1 input, 0.7 Vp-p (V), 75 ohms, BNC | ← | 4 inputs, 0.7 Vp-p (V), 75 ohms, BNC |
| Camera Output | 1 output: 1.0 V (p-p) (V), 75 ohms, BNC | 2 outputs: 1.0 V (p-p) (V), 75 ohms, BNC | 2 outputs for each input: 1.0 V (p-p) (V), 1.0 V (p-p) (V), 75 ohms, BNC |
| Sync system/input | External /internal (auto switching | ← | ← |
| Sync frequency (normal) | H:15.625 kHz V: 50Hz | ← | ← |
| External sync signal input | Sync: 4.0 Vp-p, or VS: 1.0 Vp-p (through output, with 75 ohm termination switch) | ← | ← ← |
| Frequency response | To 8 MHz | | |
| DG/DP | Less than 3 degrees, less than 3% (APL to 90%) | ← | ← |
| Cable compensation | 0 -150 m, 150-300 m, 300-500 m | ← | ← |
| Max extension distance | 500 m (5C-2V), 200 m (2C-2V eq. RG-59/U) | | |
| Camera superimpose function | -na | Maximum characters: 4 Character variety: 13 | -na |
| Power output to camera | 21 V DC, 300 mA (max) | ← | ← |
| Power requirement | 220 V AC /50/60 Hz | ← | ← |
| Power consumption | 17 W | 19 W | 50 W |
| Operating temperature range | -10 to 50°C | ← | ← |
| Weight | 2.1 kg | ← | 3.7 kg |
| Applicable rack mounting bracket | UC-P1012U (EIA 2U) | ← | ← |

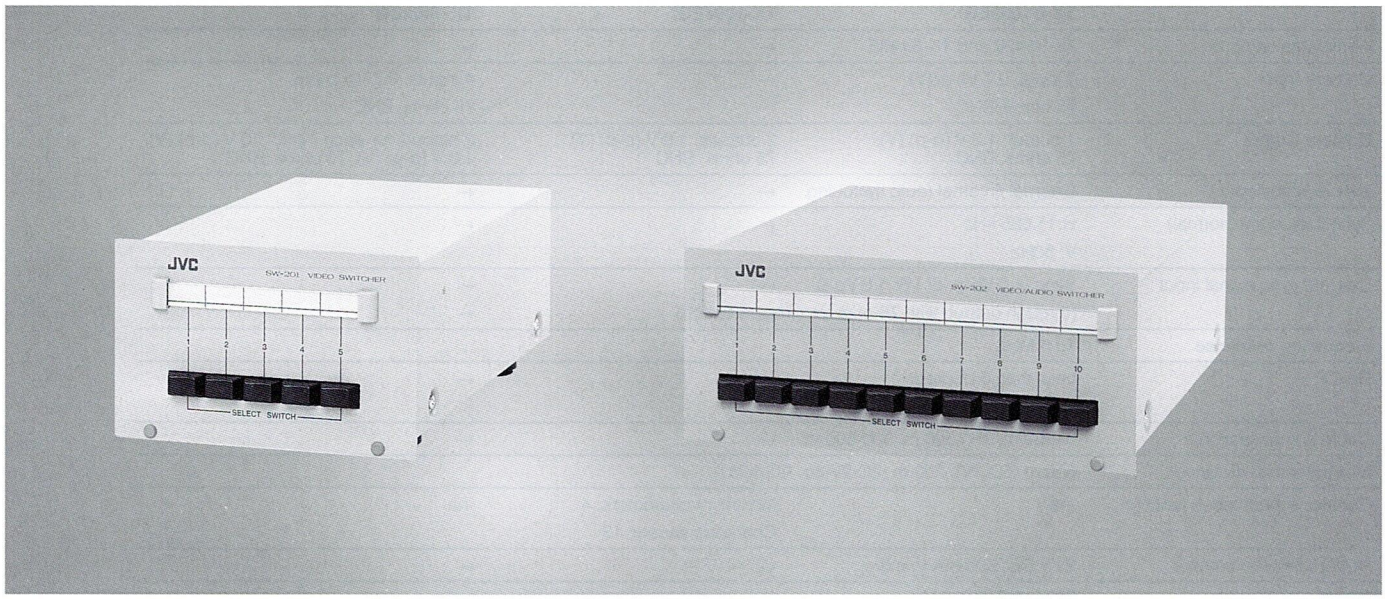
***(No EN50130) Please check for availability.**

# Manual Video Switcher

## SW-201U
### 5-INPUT VIDEO SWITCHER

## SW-202U 10-INPUT
### VIDEO/AUDIO SWITCHER






- **These units are mechanically-locked image signal switchers and because the selected condition is maintained regardless of whether the system's power is ON/OFF they are ideal preset switches.**
- **These units are excellent for system formation due to their sound signal switching function and control signal output. (SW-202U only)**

SW-201U

SW-202U

| SW-201U | |
|---|---|
| Video input: | 5 inputs, VBS: 1.0 Vp-p, 75 ohms, BNC |
| Video output: | 1 output, VBS: 1.0 Vp-p, 75 ohms, BNC |
| Dimensions: | 210 (W) x 93 (H) x 239 (D) mm |
| Weight: | 1.2 kg |
| Applicable rack mounting bracket: | UC-P1012U (EIA 2U) |

| SW-202U | |
|---|---|
| Video input: | 10 inputs, VBS: 1.0 Vp-p, 75 ohms, BNC |
| Audio input: | 10 inputs, high impedance, RCA-pin |
| Video output: | 1 output, VBS: 1.0 Vp-p, 75 ohms, BNC |
| Audio output: | 1 output, high impedance, RCA-pin |
| Control signal output: | 10-circuit make-contact signal according to select switch setting (Capacity: 35 V DC, 0.25 A) |
| Dimensions: | 210 (W) x 93 (H) x 239 (D) mm |
| Weight: | 1.9 kg |
| Applicable rack mounting bracket: | UC-P1012U (EIA 2U) |
| Accessories: | Control signal output connector |



All model numbers, specifications and prices are subject to change without notice.

# Sequential Switchers

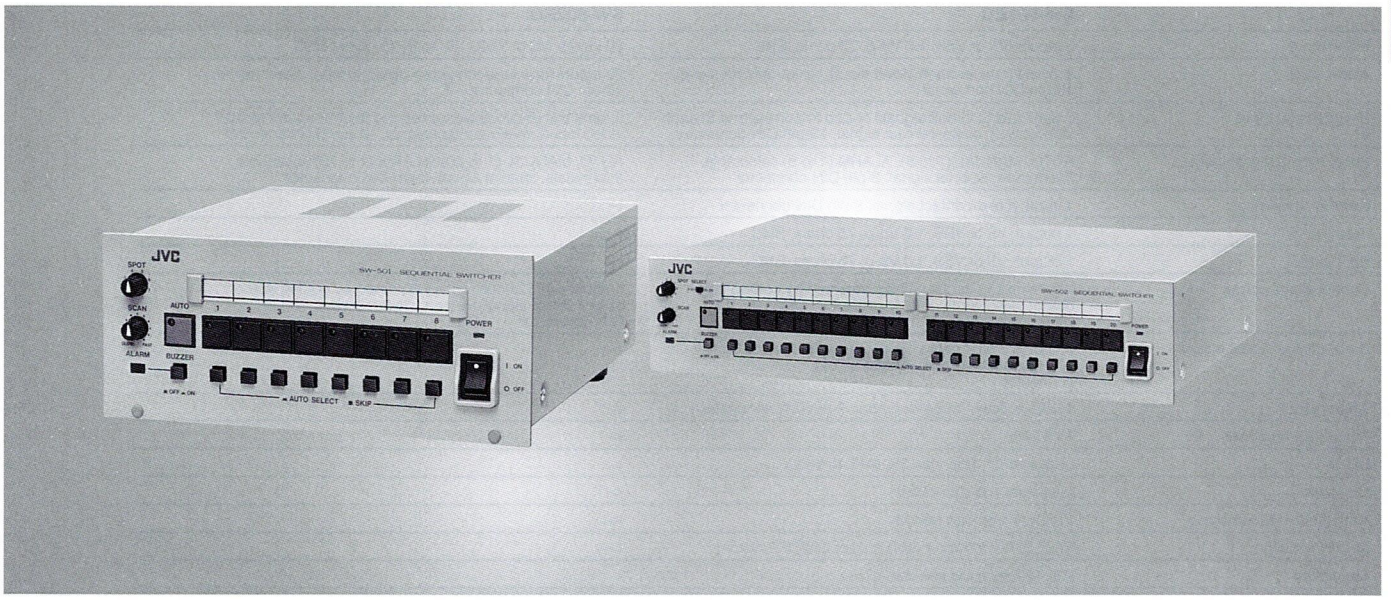
## SW-501EG (without CE)

**(please check for world-wide availability)**

## SW-502EG (without CE)

**(please check for world-wide availability)**



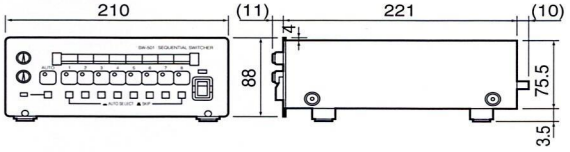


- Detailed monitoring is possible through two outputs (AUTO and SPOT) for 20 input systems. (eight input systems for SW-501EG)
- Using the skipping function, the operator can select which camera will be monitored during auto selection mode.
- Because images are switched over within the blanking time, image disturbance is minimised to reduce operator fatigue when monitoring for long periods.
- Because the camera number is superimposed, the place to be monitored is easily identified.
- Various types of monitoring operation are possible using the built-in alarm inputs and alarm buzzers.
- When monitoring is carried out with more than one sequential switch, synchronisation of the switched image is possible using the external timer function.
- They offer excellent system formation characteristics due to the large number of selection inputs and outputs.

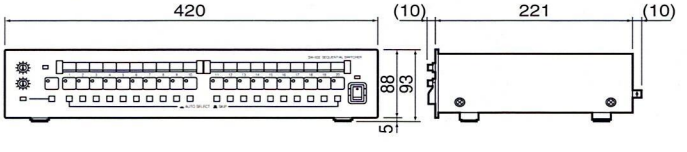
SW-501EG

SW-502EG

**SW-501EG**




**SW-502EG**




Unit:mm

All model numbers, specifications and prices are subject to change without notice.

# Specifications



| | SW-501EG | SW-502EG |
|---|---|---|
| Video input | 8 inputs, VS or VBS, 1.0 Vp-p, 75 ohms, BNC | 20 inputs, VS or VBS, 1.0 Vp-p, 75 ohms, BNC |
| Alarm input | 8 inputs (one for each video input), make-contact signal, 13-pin DIN connector | 20 inputs (one for each video input), make-contact signal, 13-pin DIN connector × 2 |
| External spot input | 3 terminals (3 circuit signals coded to correspond to each video input), make-contact signal, 13-pin DIN connector | 5 terminals (5 circuit signals coded to correspond to each video input), make-contact signal, 13-pin DIN connector |
| Serial control signal input | AUTO, MANUAL (1 to 8), ALARM (1 to 8) selectable, 2 terminals, special signal, 8-pin DIN connector | AUTO, MANUAL (1 to 20), ALARM (1 to 20) selectable, 2 terminals, special signal, 8-pin DIN connector |
| External timer input | 1 input, make-contact signal, 8-pin DIN connector | ← |
| Auto output | 1 output, VS or VBS, 1.0 Vp-p, 75 ohms, BNC | ← |
| Spot output | 1 output, VS or VBS, 1.0 Vp-p, 75 ohms, BNC | ← |
| Control signal output | 3 terminals (3 circuit signals obtained by coding auto output select signal), open-collector output, 13-pin DIN connector | 5 terminals (5 circuit signals obtained by coding auto output select signal), open-collector output, 13-pin DIN connector |
| Serial control signal output | (Outputs status data after the status of the unit has changed) 2 terminals, special signal, 8-pin DIN connector | ← |
| Timer output | 1 output, open-collector output, 8-pin DIN connector | ← |
| Frequency response | To 8 MHz | ← |
| DG/DP | Less than 3°, less than 3% (APL to 90%) | ← |
| Crosstalk | Less than –48 dB (4 MHz) | ← |
| Timing of video switching | During V blanking period | ← |
| Alarm indication | Red LED and buzzer (with buzzer ON/OFF switch) | ← |
| Alarm time | 2 to 120 seconds selectable | ← |
| Camera number indication | Provided (C1 to C8), with internal ON/OFF switch | Provided (C1 to C20), with internal ON/OFF switch |
| Timer setting | 0.5 to 30 seconds selectable | ← |
| Skip switch | Provided | ← |
| Power requirement | 220 to 240 V AC, 50/60 Hz | ← |
| Power consumption | 5.2 W | 5.6 W |
| Ambient temperature | Operating: –10 to +50°C (14 to 122°F)<br>Recommended: 0 to +40°C (32 to 104°F) | ← |
| Dimensions | 210 (W) × 93 (H) × 242 (D) mm | 420 (W) × 93 (H) × 242 (D) mm |
| Weight | 2.4 kg | 4 kg |
| Rack mount | Applicable rack mounting bracket: UC-P1012U (EIA 2U) | Possible into EIA 19-inch rack with provided brackets (EIA 2U) |

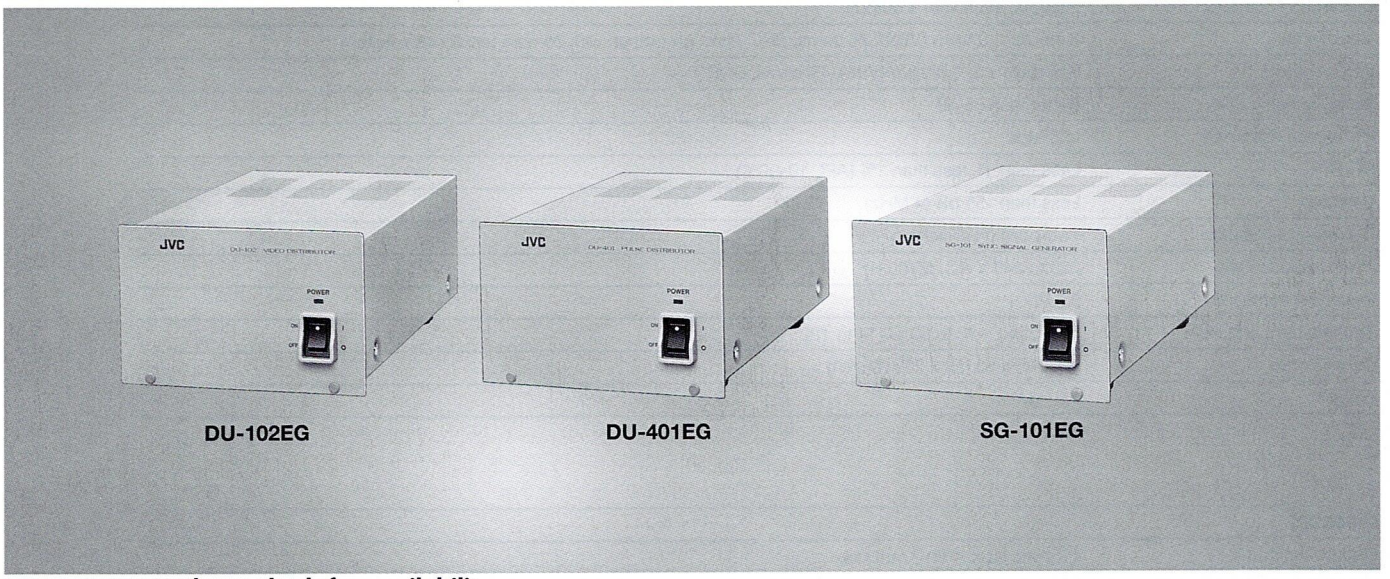


All model numbers, specifications and prices are subject to change without notice.

# DU-102EG* VIDEO SIGNAL DISTRIBUTOR
# DU-401EG* SYNC SIGNAL DISTRIBUTOR
(without CE) (please check for world-wide availability)

# SG-101EG* SYNC SIGNAL GENERATOR
(without CE) (please check for world-wide availability)



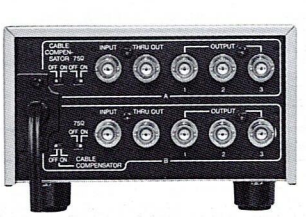



*(No EN50130) Please check for availability.

**DU-102EG**
- This unit is equipped with 2 channels for distributors of 1-input/3-distribution type.
- This unit has a built-in cable compensating circuit.
- This unit is equipped with a through output.

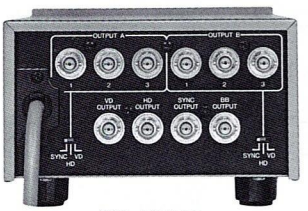
**DU-401EG**
- This unit is equipped with 2 channels for distributors of 1-input/3-distribution type.
- This unit is equipped with a through output.
- Signals from 2.0 Vp-p to 8.0 Vp-p are distributed as a 4.0 Vp-p signal through its output stabilising circuit.

**SG-101EG**
- This synchronous signal generator has a built-in synchronous signal distributor.
- This unit is equipped with a BB signal output.



DU-102EG

DU-401EG



SG-101EG

# Specifications



| DU-102EG | |
|---|---|
| Distributing capacity | 2 inputs, each with 3 outputs |
| Video input | 2 inputs, 1.0 Vp-p (VBS), 75 ohms, BNC (through-output, with 75-ohm termination switch) |
| Video output | 3 outputs x 2, 1.0 Vp-p (VBS), 75 ohms, BNC |
| Signal-to-noise ratio | Better than 55 dB |
| Frequency response | to 8 MHz |
| DG/DP | Less than 1°, less than 1% (APL 10–90%) |
| Crosstalk | Less than –55 dB (4 MHz) |
| Cable compensation | Two-position switching |
| Power requirement | 220 to 240 V AC, 50/60 Hz |
| Power consumption | 5.5 W |
| Ambient temperature | Operating: –10 to 50°C (14 to 122°F) |
| Dimensions | 140 (W) x 93 (H) x 239 (D) mm |
| Weight | 1.6 kg |

| DU-401EG | |
|---|---|
| Distributing capacity | 2 inputs, each with 3 outputs |
| Signal input | 2 inputs, 2.0 to 8.0 Vp-p, 75 ohms, BNC (through-output, with 75 ohm termination switch) |
| Signal output | 3 outputs x 2, 4.0 Vp-p, 75 ohms, BNC |
| Delay time | Within 200 nsec |
| Pulse width variation | Within ± 150 nsec |
| Rise and fall times | Within 100 nsec (with input of 4.0 Vp-p) |
| Power requirement | 220 to 240 V AC, 50/60 Hz |
| Power consumption | 7.5 W |
| Ambient temperature | Operating: –10°C to +50°C (14°F to 122°F) |
| Dimensions | 140 (W) x 93 (H) x 239 (D) mm |
| Weight | 1.6 kg |

| SG-101EG | |
|---|---|
| Signal output | HD: 1 output, 4.0 Vp-p, 75 ohms, BNC<br>VD: 1 output, 4.0 Vp-p, 75 ohms, BNC<br>C. SYNC: 1 output, 4.0 Vp-p, 75 ohms, BNC<br>BB: 1 output, 0.45 Vp-p, 75 ohms, BNC |
| Distributing output | 3 outputs x 2, 4.0 Vp-p, 75 ohms, BNC (each circuit switchable between HD, VD and C. SYNC) |
| Sync frequency | Burst 4.4336/8 MHz, Horizontal 15.625 kHz, Vertical 50 Hz |
| Power requirement | 220 to 240 V AC, 50/60 Hz |
| Power consumption | 7.5 W |
| Ambient temperature | Operating: –10°C to +50°C (14°F to 122°F) |
| Dimensions | 140 (W) x 93 (H) x 239 (D) mm |
| Weight | 1.6 kg |



All model numbers, specifications and prices are subject to change without notice.

# DU-501EG

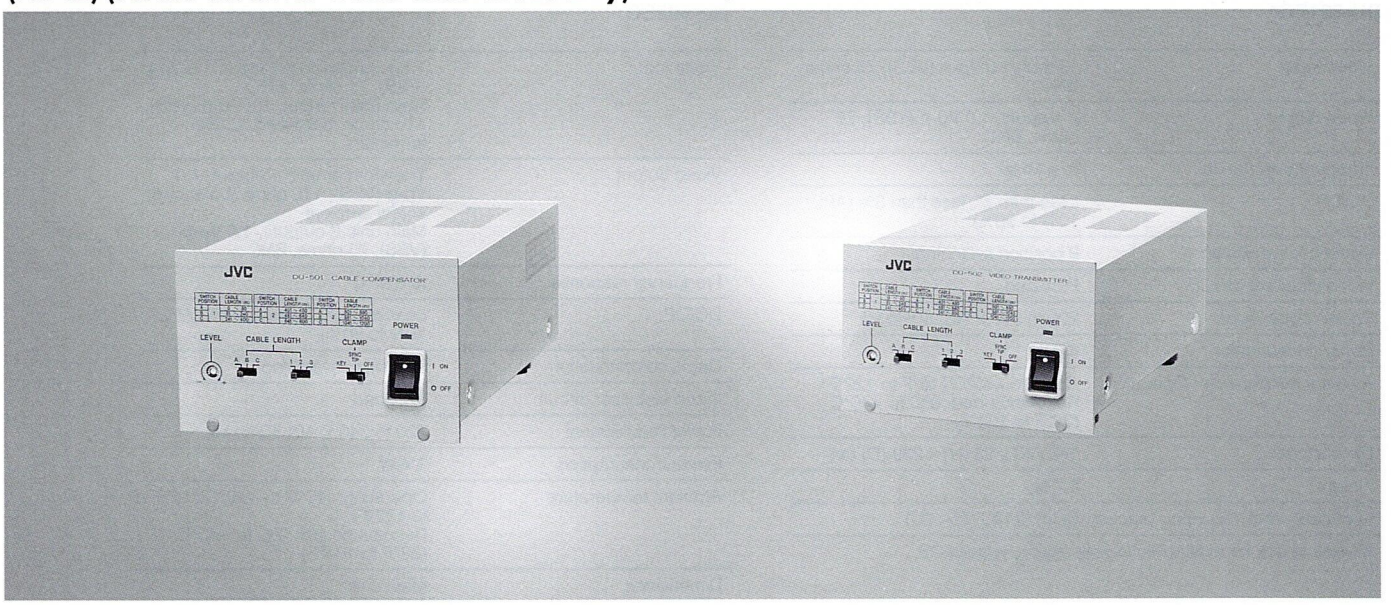
## CABLE COMPENSATOR

**(No CE) (Please check for world-wide availability)**

# DU-502EG

## TWISTED-PAIR CABLE TRANSMISSION UNIT

**(No EN50130) Please check for availability**




**DU-501EG**

- Because the cable can be extended up to 1.25 km, it is excellent for system formation (when 5C-2V cable is used).
- Stable image signals can be transmitted through its built-in clamp circuit.

**DU-502EG**

- Because the cable can be extended up to 1.25 km, it is excellent for system formation (when 110 twisted-pair cable is used).
- Stable image signals can be transmitted through its built-in clamp circuit.

DU-501EG

DU-502EG

# Specifications



### DU-501EG*

| | |
|---|---|
| Video input | 1 input, 1.0 Vp-p (VBS), 75 ohms, BNC |
| Video output | 2 outputs, 1.0 Vp-p (YBS), 75 ohms, BNC |
| Frequency response | to 6 MHz |
| DG/DP | Less than 3°, less than 3% (APL 10% to 90%) |
| Cable compensation | 9 position switching |
| Video stabilizer circuit | Provided |
| Power requirement | 220 to 240 V AC, 50/60 Hz |
| Power consumption | 4.0 W |
| Ambient temperature: Operating | -10°C to +50°C (14°F to 122°F), Recommended: 0°C to +40°C (32°F to 104°F) |
| Dimensions | 140 (W) x 93 (H) x 239 (D) mm |
| Weight | 1.7 kg |
| Applicable rack mounting bracket | UC-P1012U (EIA 2U) |

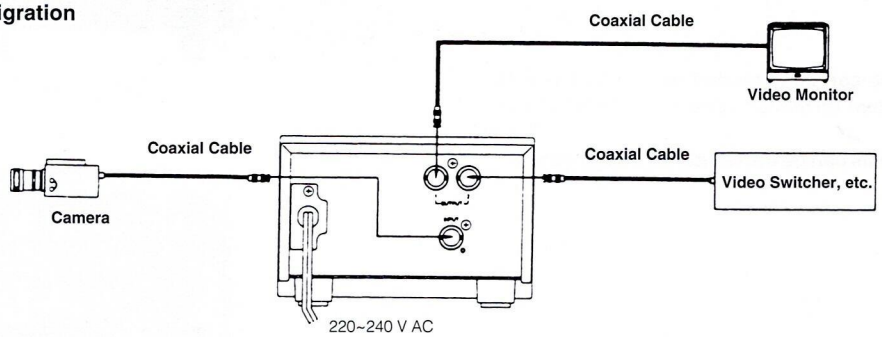
*Please check for availability in your region, without CE.

### DU-502EG*

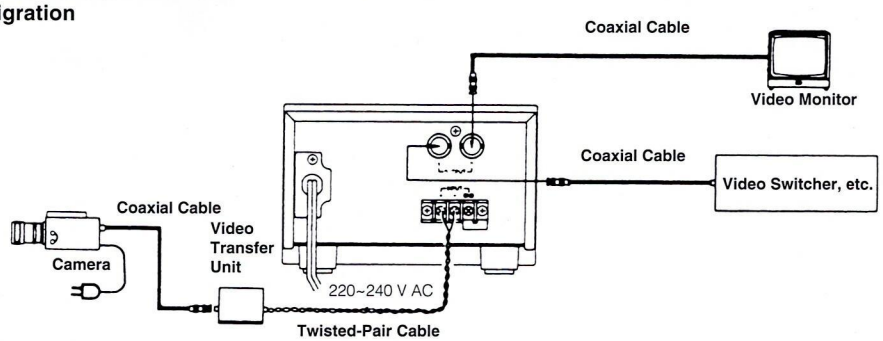
| | |
|---|---|
| Video input | Transformer unit: 1 input, 1.0 Vp-p (VBS), 75 ohms, BNC<br>Main unit: 1 input, 1.2 Vp-p (VBS), 110 ohms, balanced, screw terminal |
| Video output | Transformer unit: 1 output, 1.0 Vp-p (VBS), 110 ohms, balanced, screw terminal<br>Main unit: 2 outputs, 1.0 Vp-p (VBS), 75 ohms, BNC |
| Frequency response | to 5 MHz |
| DG/DP | Less than 3°, less than 3% (APL 10% to 90%) |
| Cable compensation | 9-Position switching |
| Video stabilizer circuit | Provided |
| Power requirement | 220 to 240 V AC, 50/60 Hz |
| Power consumption | 3.4 W |
| Ambient temperature | Operating: -10°C to +50°C (14°F to 122°F),<br>Recommended: 0°C to +40°C (32°F to 104°F) |
| Dimensions | Main unit:<br>140 (W) x 93 (H) x 239 (D) mm<br>Transformer unit:<br>58 (W) x 37 (H) x 83.2 (D) mm |
| Weight | Main unit:1.7 kg<br>Transformer unit: 150 g |
| Applicable rack mounting bracket | UC-P1012U (EIA 2U) |

*(No EN50130) Please check for availability

### DU-501EG System Configration




### DU-502EG System Configration






All model numbers, specifications and prices are subject to change without notice.

# CCTV and V.Networks Accessories List

## 1,4) Colour / Black and White Cameras

| | |
|---|---|
| **AA-P700EG** | Universal power supply for 12V DC cameras, 230V operation |
| **WB-3002BU** | Wall / ceiling bracket with head, 1/4" head |

## 2) Dome Colour Cameras

| | |
|---|---|
| **WB-S571U** | Ceiling bracket with extension for TK-C675BE |
| **WB-S572U** | Wall bracket for TK-C675BE |
| **WB-S573U** | Ceiling bracket for direct mounting TK-CB675BE |
| **WB-S575E** | Ceiling bracket for embedded mounting TK-C675BE |
| **WB-S553E** | Ceiling bracket for embedded mounting for TK-C553E/TK-AM200E |

## 3) Network Colour Cameras

| | |
|---|---|
| **VC-BK20** | V.NETWORKS ceiling bracket for VN-C2U |
| **S-8375** | V.NETWORKS 5V DC net adapter for VN-C1U / VN-C2U |

## 5) Time-lapse Recorders

| | |
|---|---|
| **RM-G30U** | Wired remote control for Time-lapse recorders |
| **SA-K97U** | RS-232C interface board for Time-lapse recorders |

## 6) Colour Monitors

| | |
|---|---|
| **RK-A10E** | 19" rack mount for two TM-A10E |
| **RK-A14E** | 19" rack mount for TM-A14PN |
| **RK-A140E** | 19" rack mount for TM-A140PN |
| **RK-1700E** | 19" rack mount for TM-1700PN |

## 7) Black and WhiteMonitors

| | |
|---|---|
| **UC-P1016U** | 19" rack mount for TM-923EG or TM-9043EG |
| **UC-P1027U** | 19" rack mount for TM-123EG |

## 8) Video System Components and Accessories

| | |
|---|---|
| **DU-102EG** | Video signal distributor, 2 input, 3 output each |
| **DU-401EG** | Sync signal distributor, 2 input, 3 output each (No CE) |
| **DU-501EG** | Coax cable compensator up to 1.2 km (No CE) |
| **DU-502EG** | Twisted pair cable transmission system up to 1.2 km (No EN50130) |
| **SG-101EG** | Sync signal generator (No CE) |
| **SW-201U** | Manual video switcher, 5 input |
| **SW-202U** | Manual video switcher, 10 input |
| **SW-501EG** | Sequential video switcher, 8 input (No CE) |
| **SW-502EG** | Sequential video switcher, 20 input (No CE) |
| **TK-C50E** | 2 channel video splitter (No EN50130) |
| **TK-U1003EG** | Single coax camera control unit (No EN50130) |
| **TK-U1004EG** | Single coax camera control unit with camera (No EN50130) |
| **TK-U1402EG** | Single coax camera control unit for 4 cameras (No EN50130) |
| **TM-9043EG** | Monitor/4-channel seq. switcher w/power for up to four TK-S140E cameras (No EN50130) |
| **UC-P1012U** | 19" Rack mount for DU, SG, SW and TK system components |

All model numbers, specifications and prices are subject to change without notice.

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**ISO 9001 : 1987**
**BS 5750 : Part 1 : 1987**
**EN 29001 : 1987**
**JIS Z9901 : 1991**

| | |
|---|---|
| **(JQA)** | Japan Quality Assurance Organization |
| **(BSI)** | British Standards Institution |
| **(EQNet)** | European Network for Quality System Assessment and Certification |


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